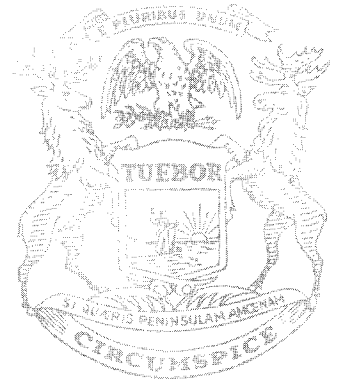


1963  
MICHIGAN  
**HEALTH STATISTICS**



MICHIGAN  
DEPARTMENT  
OF HEALTH



MICHIGAN HEALTH STATISTICS

*Annual Statistical Report*

*1963*

STATISTICAL METHODS SECTION  
MICHIGAN DEPARTMENT OF HEALTH  
Lansing, Michigan 48914

# CHARTS and TABLES

## CHARTS

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symbols used in this report

Quantity is zero, in frequency tables (one dash) .....	-
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If rate or percent is more than 0 but less than or equal to 0.05.....	0.0
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# INTRODUCTION

*This report contains health statistics concerning communicable diseases, births, deaths, fetal deaths, marriages, and divorces in Michigan during 1963 and previous years. The first four tables in this report include reference information pertaining to the years 1900-1963; the remaining tables contain detailed statistics for 1963.*

Following is a discussion of items concerned with the interpretation of data in this report:

## *1) Incomplete and Delayed Registration:*

Birth and death registration has been steadily improving since 1900. Registration of births in Michigan was 98.7 percent complete according to a test done in connection with the 1950 census. Registration of deaths is considered to be even more complete than birth registrations because death certificates are necessary for issuing burial permits.

Delayed registrations received too late for inclusion in annual statistics are also of minor concern. All certificates for the current year which are received during the same year or the first two months of the following year are included in the annual statistics; those received subsequently are considered negligible for statistical purposes.

---

## *2) Population Trend:*

Population figures for the census years are those issued by the U.S. Census Bureau as of April 1 of the particular year. For the intercensal years between 1900 and 1960 estimates for the total population of the state are those of the U.S. Census Bureau; beginning with 1961 they have

been prepared by the University of Michigan Population Studies Center. Current year estimates for political subdivisions are those of the Population Studies Center and the Statistical Methods Section of the Michigan Department of Health. Estimating procedures do not always adequately measure the full extent of extreme population changes and therefore population estimates may either be over or under the true situation. In addition to this limitation it is to be remembered that estimating procedures have varied considerably over the past years. Hence, in all instances where rates are based on estimated populations these two factors should be recognized.

---

## *3) Residence Allocation:*

Residence data are obtained by allocating vital events, regardless of the place of occurrence, to the residence of the deceased in the case of a death, or the residence of the mother in the case of a birth or fetal death. Intrastate allocation for all births and deaths occurring in Michigan began in 1935; interstate allocation was started in 1950. Thus, for 1950 and successive years births and deaths of Michigan residents

occurring in other states have also been included and births and deaths occurring in Michigan to non-residents of Michigan have been excluded. A minor change in definition of residence as applied to institutional deaths was effective beginning in 1949. Deaths in hospitals, sanatoria, and all other institutions, including mental, penal, old age, orphan, etc., are allocated in all instances to the place of previous residence, regardless of length of stay in institutions. If the previous residence cannot be determined, allocation is to the place of occurrence of death. Prior to 1949, deaths in institutions were allocated to the area in which the institution was located unless the usual residence was recorded on the certificates.

---

#### 4) *Changes in Classification of Causes of Death:*

During the past decades there have been several revisions of the International List of Causes of Death. The Sixth Revision was adopted in 1948 by the World Health Organization. Prior to the introduction of the Sixth Revision the principal cause of death was selected by means of an arbitrary set of rules. The Sixth Revision instituted a major change in that the classification is based on the underlying cause of death as indicated by the physician. To enable the physician to indicate the underlying cause of death it was necessary to change the form of the death certificate to permit the recording of the proper sequence of morbid events which led to death. The policy of the physician specifying the underlying cause

of death provides statistics which more accurately reflect medical opinion. In Michigan both the revised certificate form and the Sixth Revision were used beginning in 1950. The Seventh Revision (1955) with only minor classification changes was used beginning with the 1958 statistics.

The comparability of cause of death statistics over a period of years is affected by changes in classification and policy. This should be kept in mind when comparing statistics from 1950 and successive years with those of earlier years.

---

#### 5) *Perinatal Mortality Rates:*

Perinatal mortality rates are included in this report to facilitate the study of deaths during the late fetal and early neonatal period. These rates are based on all registered fetal deaths and the infant deaths under one week of age.

These rates were computed according to the following formula:

$$\frac{(\text{Fetal deaths} + \text{infant deaths under 1 week}) \times 1000}{\text{Fetal deaths} + \text{live births}}$$

---

#### 6) *Marriage and Divorce Data:*

Marriage and divorce data are compiled only on the basis of occurrence in Michigan without regard to the place of residence of either of the persons involved. County data for marriages are based on the county of license and for divorces the county of decree.

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*Health Department reports containing annual vital statistics have been published since 1900 with the exception of reports for the calendar years 1946, 1947, and 1949. For these three years brief statistical summaries have been distributed in lieu of the detailed departmental reports. The 1950 annual statistical report was revised both in content and format. Reports for the successive years have conformed with these revisions.*



# CHARTS

# MICHIGAN'S HEALTH PICTURE

## 1950-1963

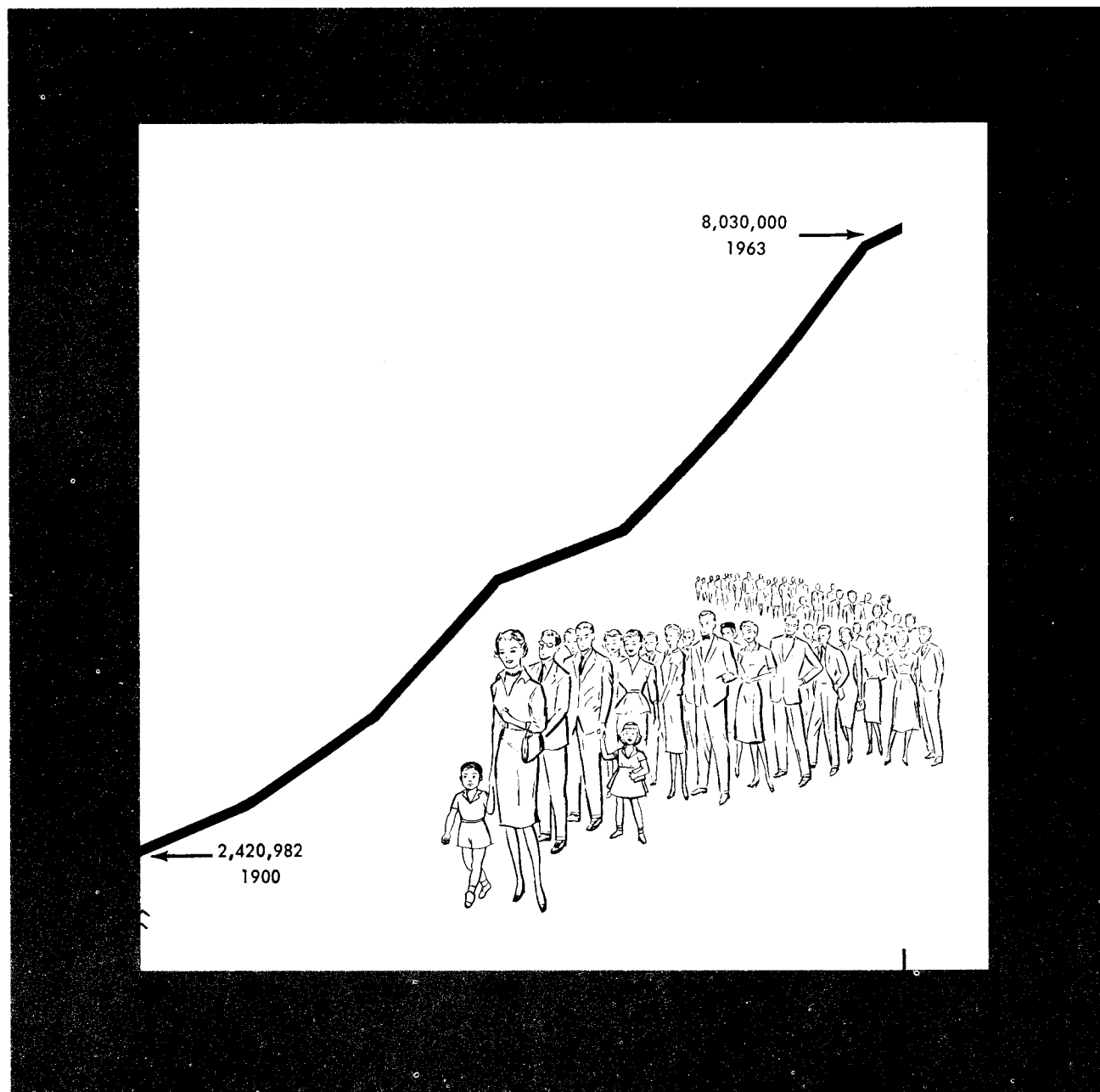


<b>POPULATION</b>	increased from 6,371,766 to 8,030,000 26% increase
<b>LIVE BIRTHS</b>	'50 - '57 7 years uninterrupted increase '57 208,488 all time high '63 178,871 6th consecutive year of decline
<b>BIRTHS IN HOSPITALS</b>	97.0% in 1950; now 99.5%
<b>ILLEGITIMACY RATE</b>	increased by 78%, from 27.6 to 49.0
<b>DEATH RATE</b>	after a decline, reverted to 1950 figure of 9.0
<b>INFANT DEATH RATE</b>	declined from 26.3 to 23.2, 12% decrease
<b>MATERNAL DEATH RATE</b>	substantial decrease of 30%, from 5.7 to 4.0
<b>PERINATAL DEATH RATE</b>	declined from 35.4 to 29.8
<b>TUBERCULOSIS DEATH RATE</b>	remarkable decrease of 81%, from 19.9 to 3.7
<b>MARRIAGE RATE</b>	increasing trend in last 5 years, now 17.0
<b>DIVORCE RATE</b>	minor annual fluctuations, now 4.4

(Death rate per 1,000 estimated population, illegitimacy rate and infant death rate per 1,000 live births, maternal death rate per 10,000 live births, perinatal death rate - number of deaths under 1 week and fetal deaths per 1,000 live births and fetal deaths.)



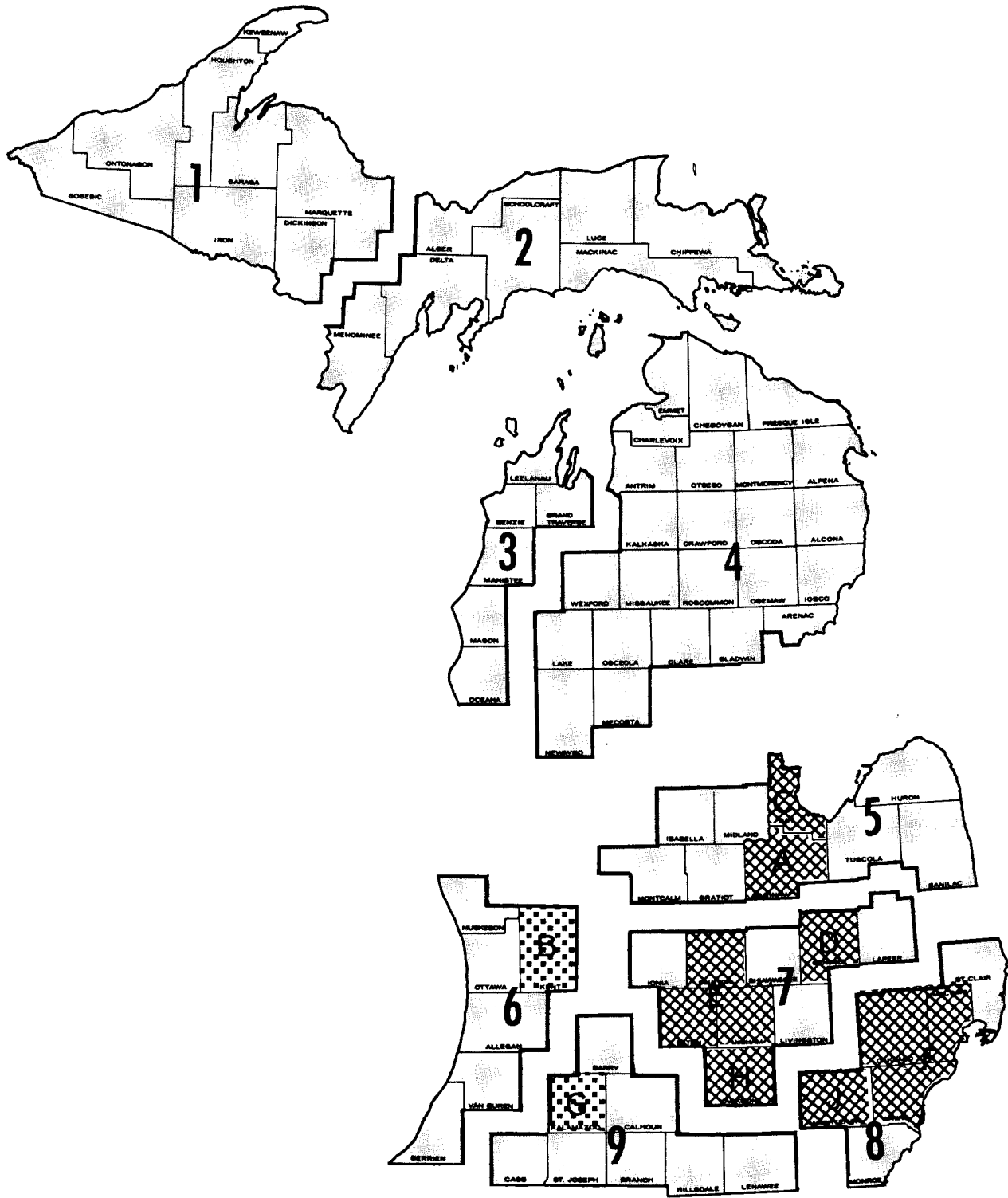
# MICHIGAN'S GROWING POPULATION



**1963 POPULATION  
MORE THAN TRIPLES THAT OF 1900  
and  
IS NOW ABOVE THE 8,000,000 MARK**

Source of data: Bureau of Census decennial census counts for 1900-1960, University of Michigan Population Studies Center estimate for July 1, 1963.

Statistical Methods Section  
Michigan Department of Health




Western Metropolitan Area  Eastern Metropolitan Area 



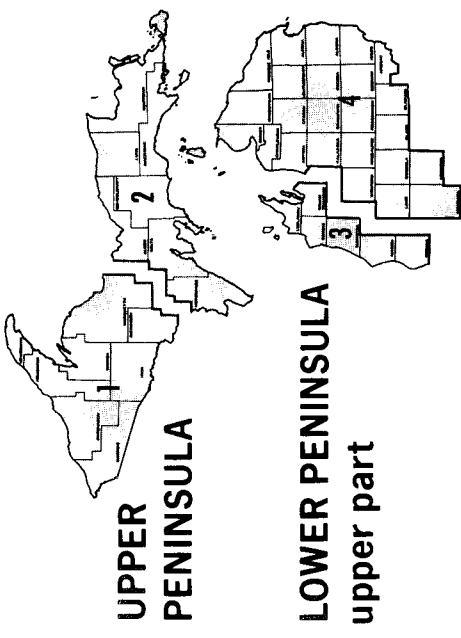
CHART III

# POPULATION TRENDS BY ECONOMIC AREAS

Michigan 1900-1963

## Numerical Distribution

	1900	1910	1920	1930	1940	1950	1960	1963
<b>MICHIGAN</b>	2,420,982	2,810,173	3,668,412	4,842,325	5,256,106	6,371,766	7,823,194	8,030,000



	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	261,362	325,628	332,556	318,676	323,544	302,288	305,952	308,500
Area 1	164,654	215,791	218,916	204,608	200,265	178,251	177,431	179,500
Area 2	96,708	109,837	113,640	114,068	123,279	124,007	128,521	129,000

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	351,673	385,609	332,837	297,318	334,343	358,788	390,260	397,400
Area 3	104,105	111,929	91,857	84,774	92,266	100,654	108,163	110,200
Area 4	247,568	273,680	240,980	212,544	242,077	258,134	282,097	287,200

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	1,807,947	2,098,936	3,003,019	4,226,331	4,598,219	5,710,720	7,126,982	7,324,100
Area 5, A, C	348,573	359,052	371,379	380,007	417,703	473,288	567,024	576,100
Area 6, B	327,668	371,649	423,971	532,676	566,566	685,967	867,838	896,200
Area 7, D, E, H	302,148	335,484	444,563	598,666	642,359	769,691	981,993	1,034,000
Area 8, F, J	562,572	743,745	1,450,442	2,362,921	2,592,981	3,318,068	4,143,121	4,253,400
Area 9, G	266,986	289,006	312,664	352,061	378,610	463,706	567,006	564,400

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	978,862	1,260,506	2,111,666	3,241,377	3,522,474	4,430,825	5,570,749	5,750,300
Area 5, A, C	81,222	89,290	100,286	120,717	130,468	153,515	190,752	196,500
Area 6, B	129,714	159,145	183,041	240,511	246,338	288,292	363,187	378,200
Area 7, D, E, H	62,378	68,238	69,548	74,974	88,461	86,461	107,042	106,000
Area 8, F, J	41,804	64,555	125,668	211,641	227,944	270,963	344,313	401,700
Area 9, G	96,622	106,938	134,041	172,489	191,411	244,159	298,949	316,800

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	426,829	613,773	1,305,798	2,177,343	2,377,329	3,016,197	3,762,360	3,858,300
Area 10, I	44,310	60,427	71,225	91,368	100,085	126,707	169,712	174,600
Area 11, K	48,222	53,426	72,539	92,304	93,108	107,925	131,994	133,900
Area 12, L	47,761	44,714	49,520	65,530	80,810	134,606	172,440	184,300
Area 13, M	174,024	219,572	254,266	331,879	346,423	414,999	532,899	552,800

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	804,838	1,040,934	1,857,400	2,909,498	3,176,051	4,015,826	5,037,850	5,197,500
Area 14, N	829,085	838,430	891,353	984,954	1,075,745	1,279,895	1,556,233	1,573,800
Area 15, O	77,036	40,577	62,362	84,630	94,501	121,545	149,943	152,700
Area 16, P	792,049	797,853	828,991	900,324	981,244	1,156,350	1,406,290	1,421,100

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	829,085	838,430	891,353	984,954	1,075,745	1,279,895	1,556,233	1,573,800
Area 17, Q	37,036	40,577	62,362	84,630	94,501	121,545	149,943	152,700
Area 18, R	792,049	797,853	828,991	900,324	981,244	1,156,350	1,406,290	1,421,100

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	74.7	74.7	81.8	87.2	87.5	89.6	91.1	91.2
Area 19, S	14.4	12.8	10.1	7.8	7.9	7.4	7.2	7.2
Area 20, T	13.5	13.2	11.6	11.0	10.8	10.8	11.1	11.1
Area 21, U	12.5	11.9	12.1	12.4	12.2	12.1	12.6	12.9
Area 22, V	23.2	26.5	39.5	48.7	48.7	52.0	53.0	53.0
Area 23, W	11.1	10.3	8.5	7.3	7.2	7.3	7.2	7.0

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	40.5	44.9	57.5	66.9	67.0	69.5	71.2	71.6
Area 24, X	3.4	3.2	2.7	2.5	2.5	2.4	2.4	2.5
Area 25, Y	5.4	5.7	5.0	5.0	4.7	4.5	4.6	4.7
Area 26, Z	2.6	2.4	1.9	1.4	1.4	1.4	1.4	1.3
Area 27, AA	1.7	2.3	3.4	4.4	4.3	4.3	4.8	5.0
Area 28, AB	4.0	3.8	3.7	3.5	3.7	3.8	3.8	3.9
Area 29, AC	17.6	21.8	35.6	45.0	45.2	47.3	48.1	48.0
Area 30, AD	1.8	2.2	1.9	1.9	1.9	2.0	2.2	2.2
Area 31, AE	2.0	1.9	2.0	1.9	1.8	1.7	1.7	1.7
Area 32, AF	2.0	1.6	1.3	1.3	1.5	2.1	2.2	2.3

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	7.2	7.9	6.9	6.8	6.6	6.5	6.8	6.9
Area 33, AG	33.3	37.0	50.6	60.1	60.4	63.0	64.4	64.7
Area 34, AH	34.2	29.8	24.3	20.3	20.5	20.1	19.9	19.6
Area 35, AI	1.5	1.4	1.7	1.7	1.8	1.9	1.9	1.9
Area 36, AJ	32.7	28.4	22.6	18.6	18.7	18.2	18.0	17.7

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	10.8	11.6	9.1	6.6	6.1	4.7	3.9	3.8
Area 37, AK	6.8	7.7	6.0	4.2	3.8	2.8	2.3	2.2
Area 38, AL	4.0	3.9	3.1	2.4	2.3	1.9	1.6	1.6

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	14.5	13.7	9.1	6.2	6.4	5.7	5.0	5.0
Area 39, AM	4.3	4.0	2.5	1.8	1.8	1.6	1.4	1.4
Area 40, AN	10.2	9.7	6.6	4.4	4.6	4.1	3.6	3.6

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	74.7	74.7	81.8	87.2	87.5	89.6	91.1	91.2
Area 41, AO	14.4	12.8	10.1	7.8	7.9	7.4	7.2	7.2
Area 42, AP	13.5	13.2	11.6	11.0	10.8	10.8	11.1	11.1
Area 43, AQ	12.5	11.9	12.1	12.4	12.2	12.1	12.6	12.9
Area 44, AR	23.2	26.5	39.5	48.7	48.7	52.0	53.0	53.0
Area 45, AS	11.1	10.3	8.5	7.3	7.2	7.3	7.2	7.0

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	40.5	44.9	57.5	66.9	67.0	69.5	71.2	71.6
Area 46, AT	3.4	3.2	2.7	2.5	2.5	2.4	2.4	2.5
Area 47, AU	5.4	5.7	5.0	5.0	4.7	4.5	4.6	4.7
Area 48, AV	2.6	2.4	1.9	1.4	1.4	1.4	1.4	1.3
Area 49, AW	1.7	2.3	3.4	4.4	4.3	4.3	4.8	5.0
Area 50, AX	4.0	3.8	3.7	3.5	3.7	3.8	3.8	3.9
Area 51, AY	17.6	21.8	35.6	45.0	45.2	47.3	48.1	48.0
Area 52, AZ	1.8	2.2	1.9	1.9	1.9	2.0	2.2	2.2
Area 53, BA	2.0	1.9	2.0	1.9	1.8	1.7	1.7	1.7
Area 54, BB	2.0	1.6	1.3	1.3	1.5	2.1	2.2	2.3

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	7.2	7.9	6.9	6.8	6.6	6.5	6.8	6.9
Area 55, BC	33.3	37.0	50.6	60.1	60.4	63.0	64.4	64.7
Area 56, BD	34.2	29.8	24.3	20.3	20.5	20.1	19.9	19.6
Area 57, BE	1.5	1.4	1.7	1.7	1.8	1.9	1.9	1.9
Area 58, BF	32.7	28.4	22.6	18.6	18.7	18.2	18.0	17.7

## Percentage Distribution

	1900	1910	1920	1930	1940	1950	1960	1963
<b>MICHIGAN</b>	100	100	100	100	100	100	100	100

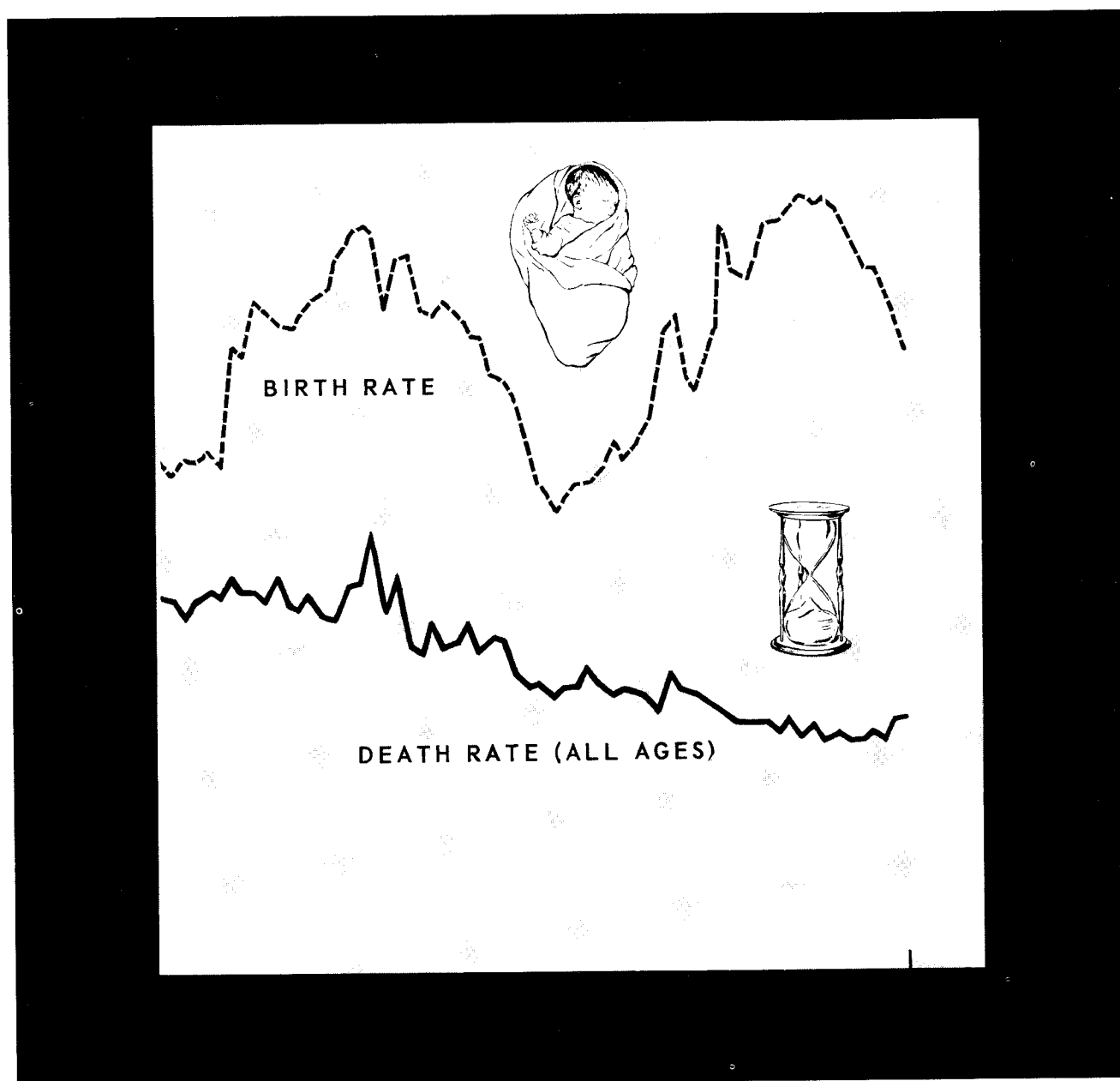
	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	10.8	11.6	9.1	6.6	6.1	4.7	3.9	3.8
Area 1	6.8	7.7	6.0	4.2	3.8	2.8	2.3	2.2
Area 2	4.0	3.9	3.1	2.4	2.3	1.9	1.6	1.6

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	14.5	13.7	9.1	6.2	6.4	5.7	5.0	5.0
Area 3	4.3	4.0	2.5	1.8	1.8	1.6	1.4	1.4
Area 4	10.2	9.7	6.6	4.4	4.6	4.1	3.6	3.6

	1900	1910	1920	1930	1940	1950	1960	1963
<b>TOTAL</b>	74.7	74.7	81.8	87.2	87.5	89.6	91.1</	

# BIRTH and DEATH RATES

## Michigan 1900 - 1963

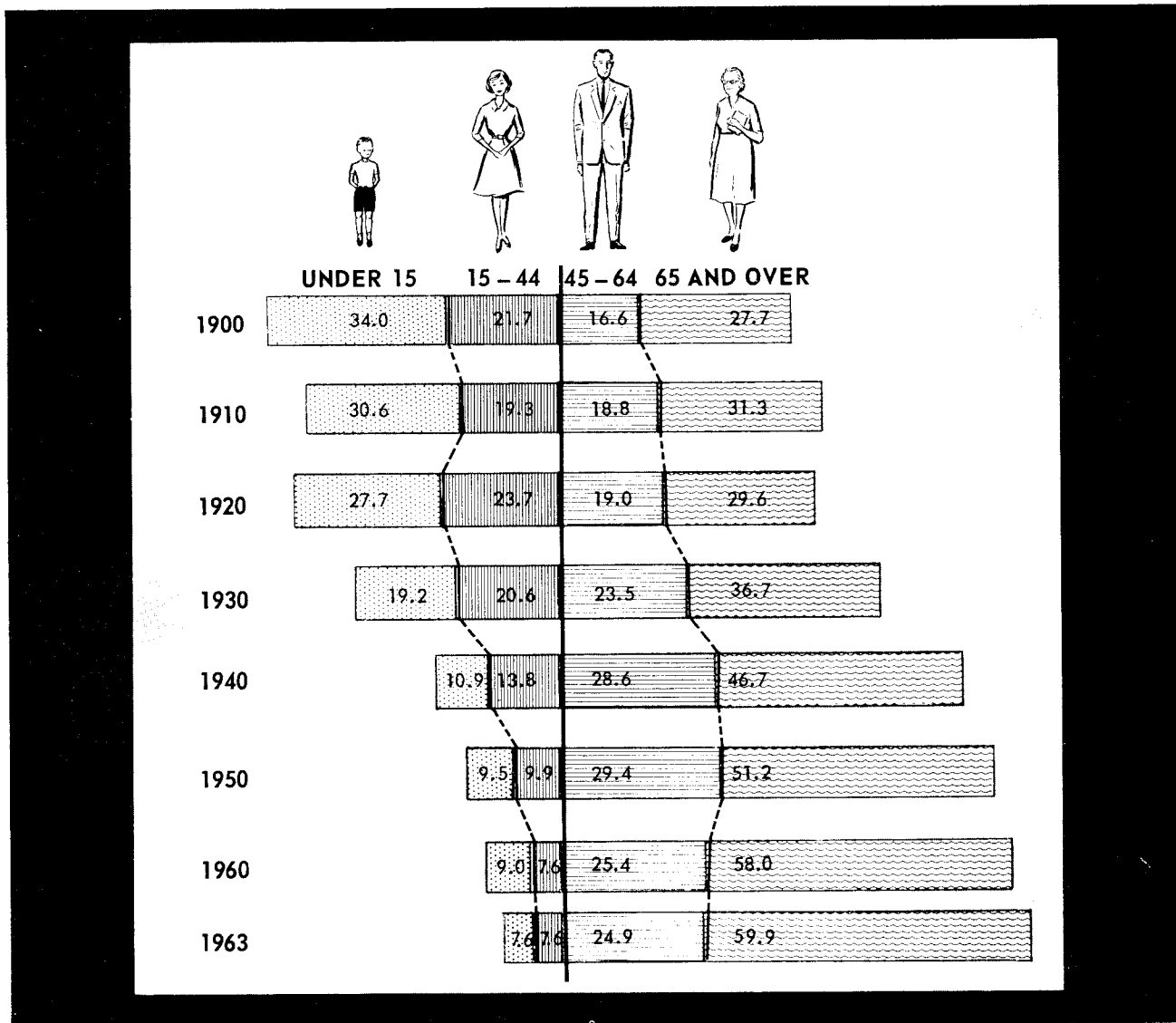


From the beginning of the century the birth rate trend was upward, reaching a high of 26.2 in 1916 and 1917. The rate then declined to an all time low of 16.2 during the depression year of 1933. With the exception of the 2 years at the close of the war 1944 and 1945, the trend continued upward again reaching an all time high of 27.4 in 1956. The trend then reversed with the rate declining to 24.9 in 1959, remaining the same in 1960, and declining to 22.3 in 1963.

In 1900 the death rate was 13.4 per 1,000 population. Since that time, the death rate trend has been downward in spite of one high point of 15.6 during 1918 as a result of the influenza epidemic following the first world war. The 1963 death rate of 9.0 represents a drop of 33% since 1900.

# AGE AT DEATH - a changing pattern

## Percentage Distribution - Michigan 1900-1963



Since the beginning of the century an amazing and progressive change in the age at death pattern has occurred between the younger (under 45 years) and older (45 years and older) age groups.

	UNDER 45 YEARS	45 YEARS & OLDER
1900	56%	44%
1963	15%	85%

The trend has been a gradual decrease in each of the age groups under 45 years and a gradual increase in the combined age groups 45 years and older. In 1900 approximately 1/3 of all deaths occurred under 15 years of age; the proportion has decreased to approximately 1/13 at the present time. In contrast only slightly over 1/4 of all deaths occurred in the 65 & over age group in 1900; the proportion in 1963 has more than doubled.

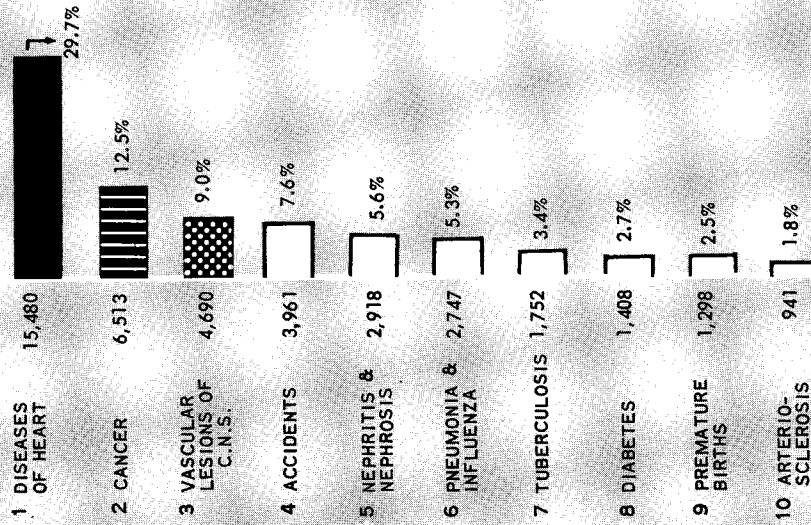
During the last 33 years progress has been indicated by the fact that in 1963 the 65 & over age group alone accounted for almost the same proportion of deaths as the combined age groups 45-64 and 65 & over in 1930; approximately 60% in each instance.

The above changes reflect 1) the decrease in deaths due to communicable diseases and other diseases of childhood, 2) an increase in those due to chronic diseases in the older age groups.

# LEADING CAUSES OF DEATH

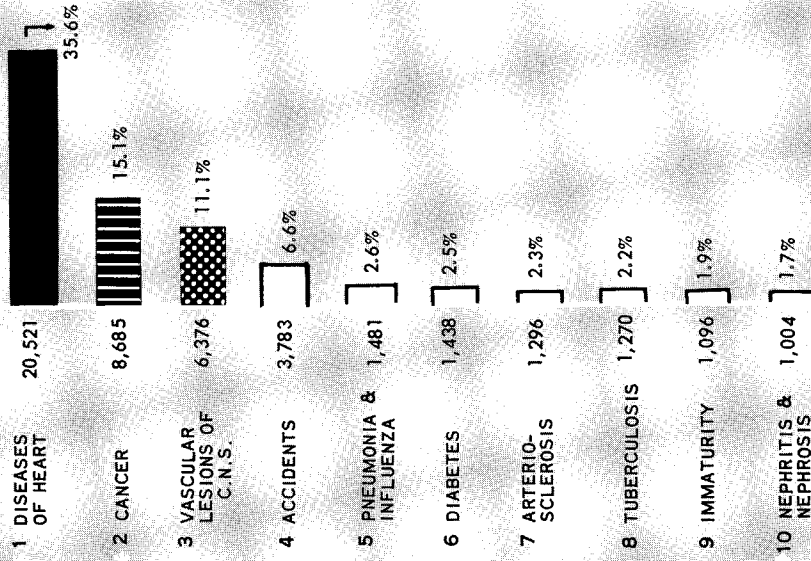
## Michigan 1940, 1950, 1963

1940



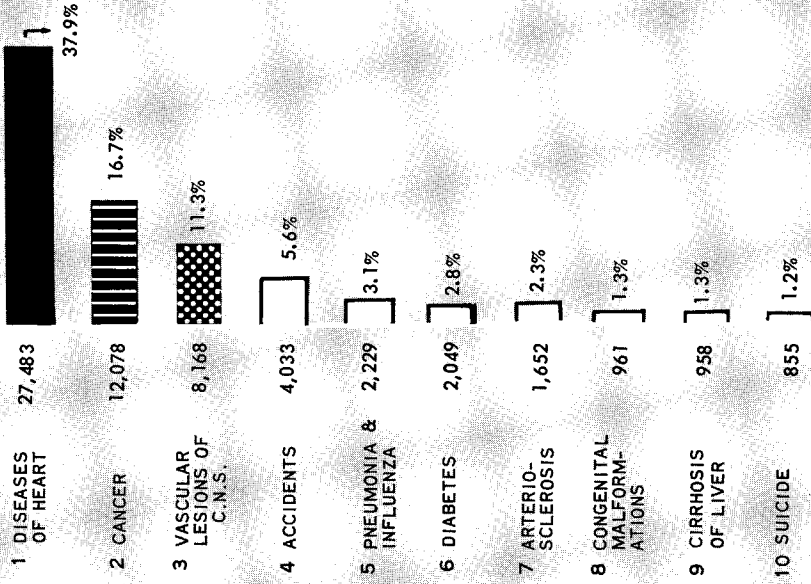
TOTAL DEATHS 52,092 (100%)

1950



TOTAL DEATHS 57,567 (100%)

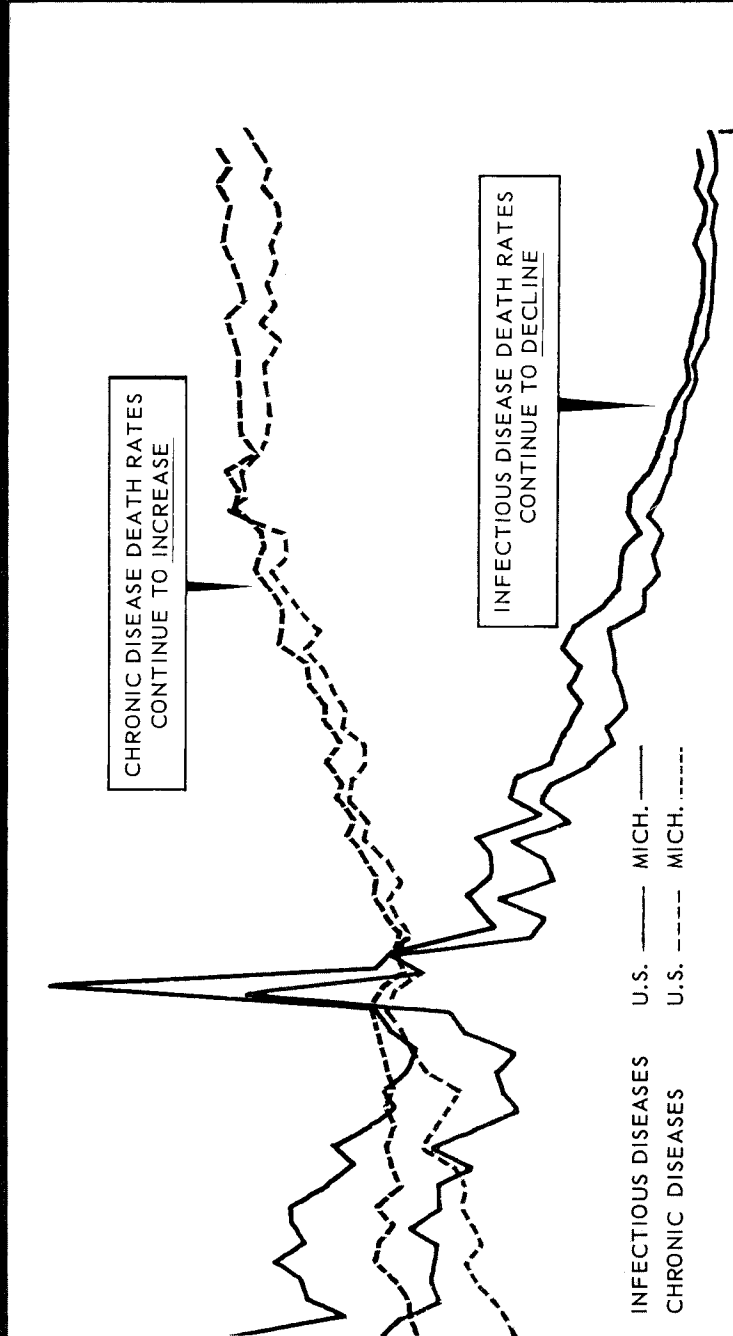
1963



TOTAL DEATHS 72,438 (100%)

# DEATH RATES DUE TO CERTAIN CHRONIC & INFECTIOUS DISEASES\*

## MICHIGAN and UNITED STATES, 1900 - 1963



\*Includes following diseases indicated by International Classification Seventh Revision Detailed List Numbers in parenthesis: Chronic Diseases - Cancer (140-205), Diabetes (260), Vascular lesions affecting central nervous system (330-334), Diseases of heart (400-443), Chronic and unspecified nephritis (592-594), Ulcer of stomach or duodenum (540-541), and Cirrhosis of liver (581). Infectious Diseases - Typhoid fever (40), Scarlet fever (50), Whooping cough (56), Diphtheria (55), Tuberculosis (1-19), Dysentery (45-48), Malaria (110-117), Syphilis (20-29), Measles (85), Pneumonia and Influenza (480-493), Diarrhea, enteritis, and ulceration of intestines (543, 571, 572).

Source of United States data: *Building America's Health, Vol. III, Table 36, and Vital Statistics of United States, Vol. I, II.*

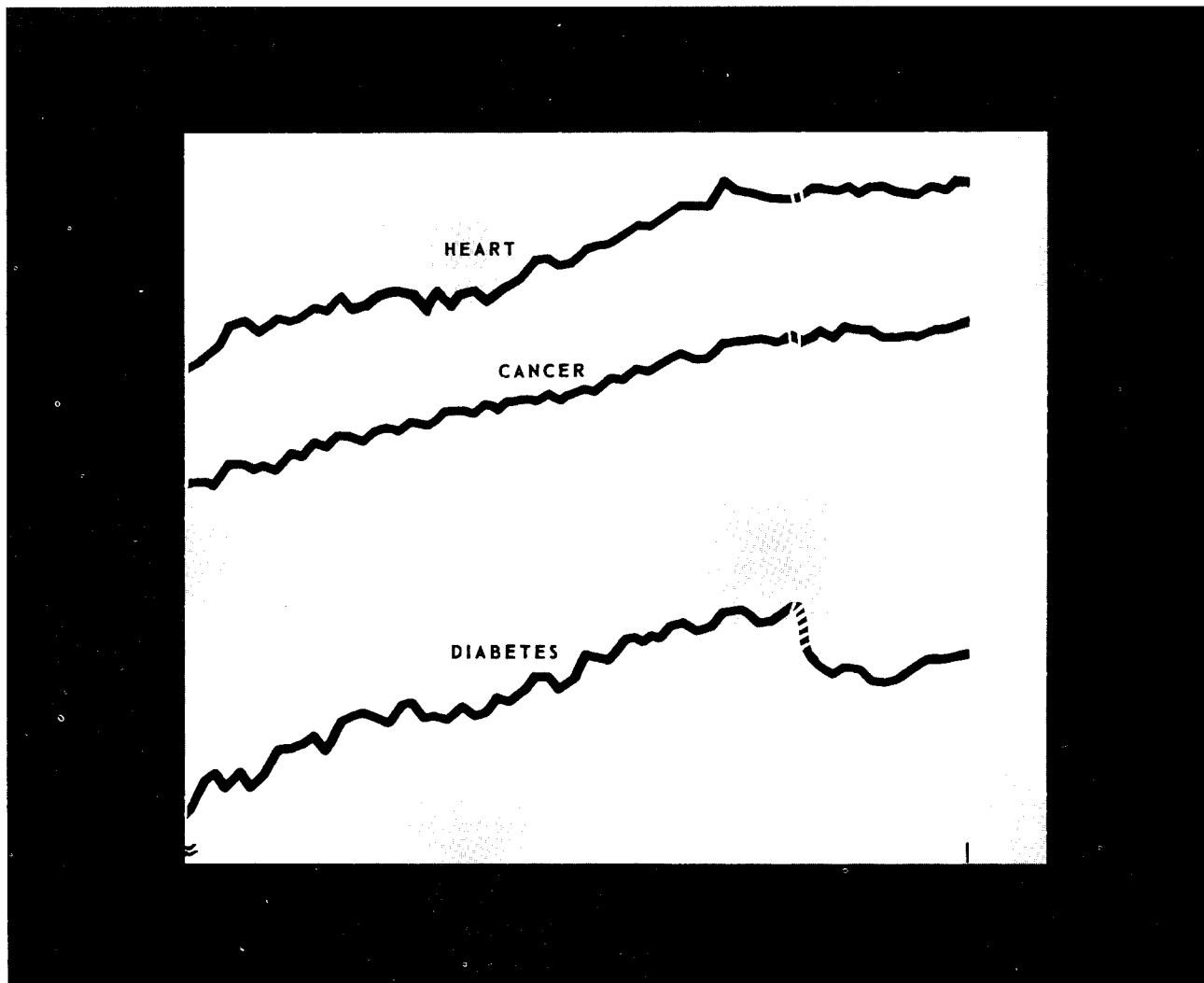
(U.S. data for 1963 not available.)

Statistical Methods Section  
Michigan Department of Health

# MORTALITY TRENDS

## heart, cancer, diabetes

### Michigan 1900-1963



Heart disease, cancer, and diabetes are among the leading causes of death in Michigan accounting for 57% of all deaths. Between 1900-1949 the death rate trend of each of these has been progressively upward. However, during this period the death rates increased more rapidly for diabetes than for either heart disease or cancer; the increases were 219% for diabetes, 157% for heart disease, and 127% for cancer.

Beginning in 1950, the Sixth Revision Classification of Causes of Death was used which increased the number of deaths classified as due to heart disease by approximately 6% and decreased those due to cancer and diabetes by approximately 3% and 28% respectively.

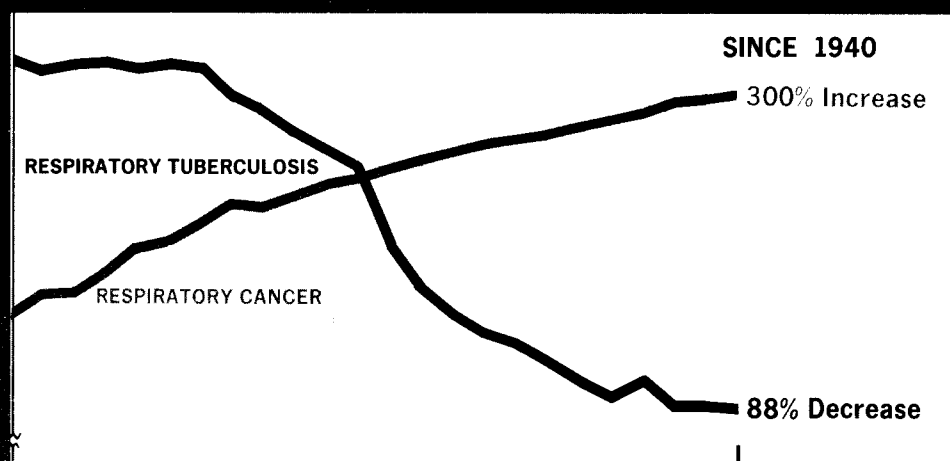
Since 1950, although there have been minor fluctuations in both heart disease and cancer death rates, they have followed similar trend patterns. The diabetes death rate dropped noticeably in 1950 due largely to classification changes. Between 1950-1960 there were minor fluctuations; since then the trend has been increasing.



# CANCER MORTALITY TRENDS

## Michigan 1940 - 1963

### RESPIRATORY MORTALITY COMPARISON : CANCER WITH TUBERCULOSIS



1940: Respiratory Tuberculosis Death Rate was 4.4 times the Respiratory Cancer Death Rate.  
 1963: Respiratory Cancer Death Rate was 7.8 times the Respiratory Tuberculosis Death Rate.

### CANCER MORTALITY BY SITE

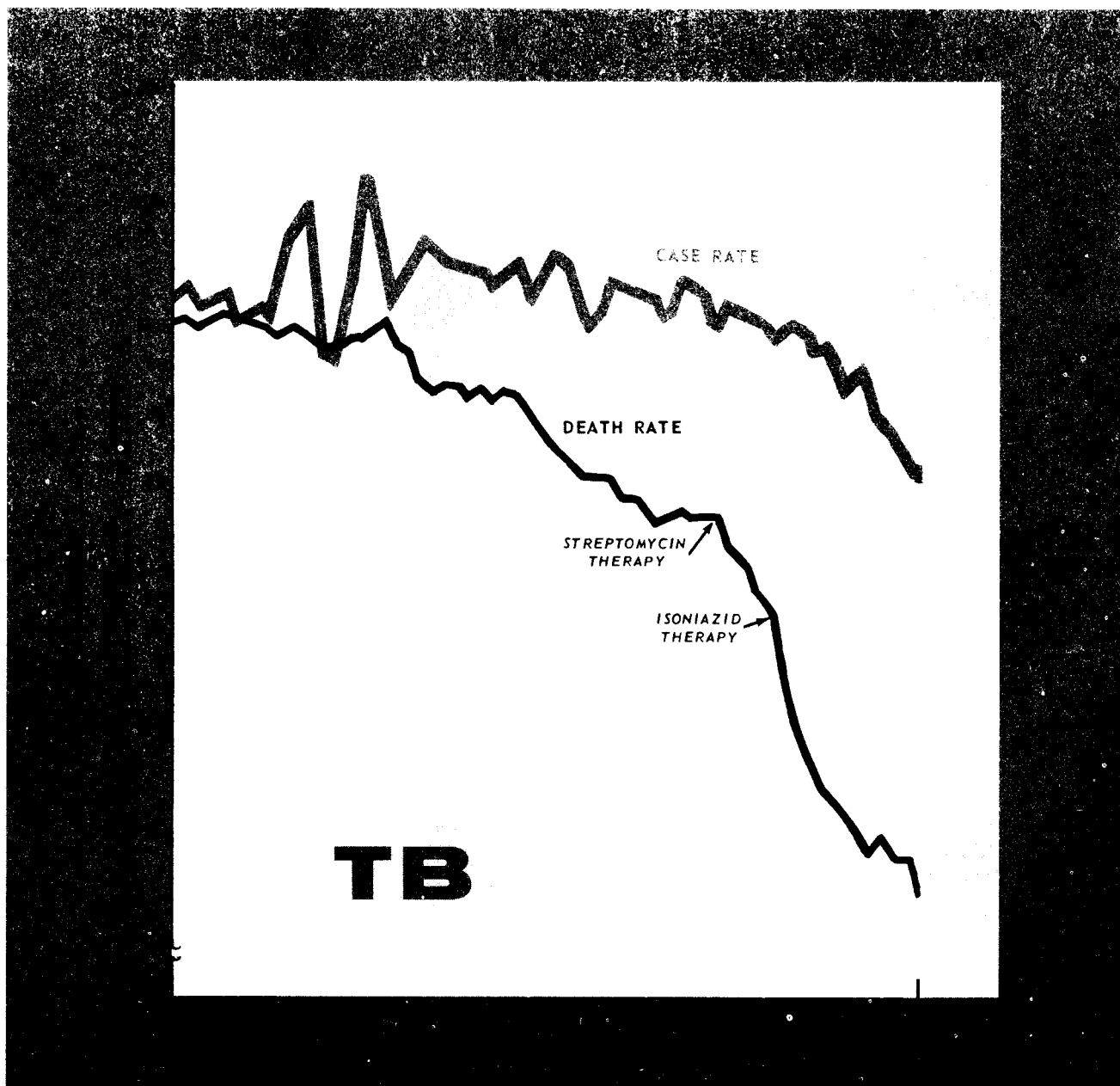
CAUSE	N U M B E R						R A T E P E R 100,000 P O P U L A T I O N					
	1940	1945	1950	1955	1960	1963	1940	1945	1950	1955	1960	1963
TOTAL	6,513	7,486	8,685	10,297	11,331	12,078	123.9	137.7	136.3	142.3	144.8	150.4
Buccal cavity & pharynx	191	206	219	222	261	271	3.6	3.8	3.4	3.1	3.3	3.4
Digestive organs & peritoneum	2,884	3,227	3,464	3,880	3,935	3,991	54.9	59.4	54.4	53.6	50.3	49.7
Esophagus	123	125	134	216	195	242	2.3	2.3	2.1	3.0	2.5	3.0
Stomach	1,133	1,119	1,076	1,030	970	801	21.6	20.6	16.9	14.2	12.4	10.0
Intestines (including duodenum & rectum)	980	1,204	1,394	1,701	1,672	1,788	18.6	22.2	21.9	23.5	21.4	22.2
Liver & biliary passages	384	453	468	411	471	450	7.3	8.3	7.3	5.7	6.0	5.6
Pancreas	202	244	329	463	570	640	3.8	4.5	5.2	6.4	7.3	8.0
Other	62	82	63	59	57	70	1.2	1.5	1.0	0.8	0.7	0.9
<b>Respiratory system</b>	<b>347</b>	<b>549</b>	<b>923</b>	<b>1,318</b>	<b>1,756</b>	<b>2,119</b>	<b>6.6</b>	<b>10.1</b>	<b>14.5</b>	<b>18.2</b>	<b>22.4</b>	<b>26.4</b>
Breast & genito-urinary organs	2,195	2,396	2,520	2,975	3,262	3,354	41.8	44.1	39.5	41.1	41.7	41.7
Breast	643	671	774	878	985	1,057	12.2	12.3	12.1	12.1	12.6	13.1
Uterus	660	704	594	677	620	576	12.6	13.0	9.3	9.4	7.9	7.2
Other female genital organs	156	217	278	347	383	393	3.0	4.0	4.4	4.8	4.9	4.9
Male genital organs	414	462	451	602	648	711	7.9	8.5	7.1	8.3	8.3	8.8
Urinary organs	322	342	423	471	626	617	6.1	6.3	6.6	6.5	8.0	7.7
Other & unspecified sites	896	1,108	1,559	1,902	2,117	2,343	17.0	20.4	24.5	26.3	27.1	29.2
Skin	84	115	106	140	134	158	1.6	2.1	1.7	1.9	1.7	2.0
Leukemia & aleukemia	215	255	321	444	516	505	4.1	4.7	5.0	6.1	6.6	6.3
Hodgkin's disease	62	80	98	126	145	145	1.2	1.5	1.5	1.7	1.9	1.8
Other	535	658	1,034	1,192	1,322	1,535	10.2	12.1	16.2	16.5	16.9	19.1

Along with a gradually increasing trend in the total cancer death rate, the mortality rate for cancer of the respiratory system has increased considerably in the last 23 years. For every 100,000 people there were four times as many people dying of cancer of the respiratory system in 1963 as in 1940; the rates were 26.4 and 6.6 respectively. Also cancer of the respiratory system has become an increasingly greater proportion of the total cancer problem representing 18% of all the cancer deaths in 1963 as compared with 5% in 1940.

At the same time, death rates for cancer of the pancreas have more than doubled while there has been a noticeable decrease in the death rate due to cancer of the stomach.

# TUBERCULOSIS CASE & DEATH RATES

## Michigan 1900-1963

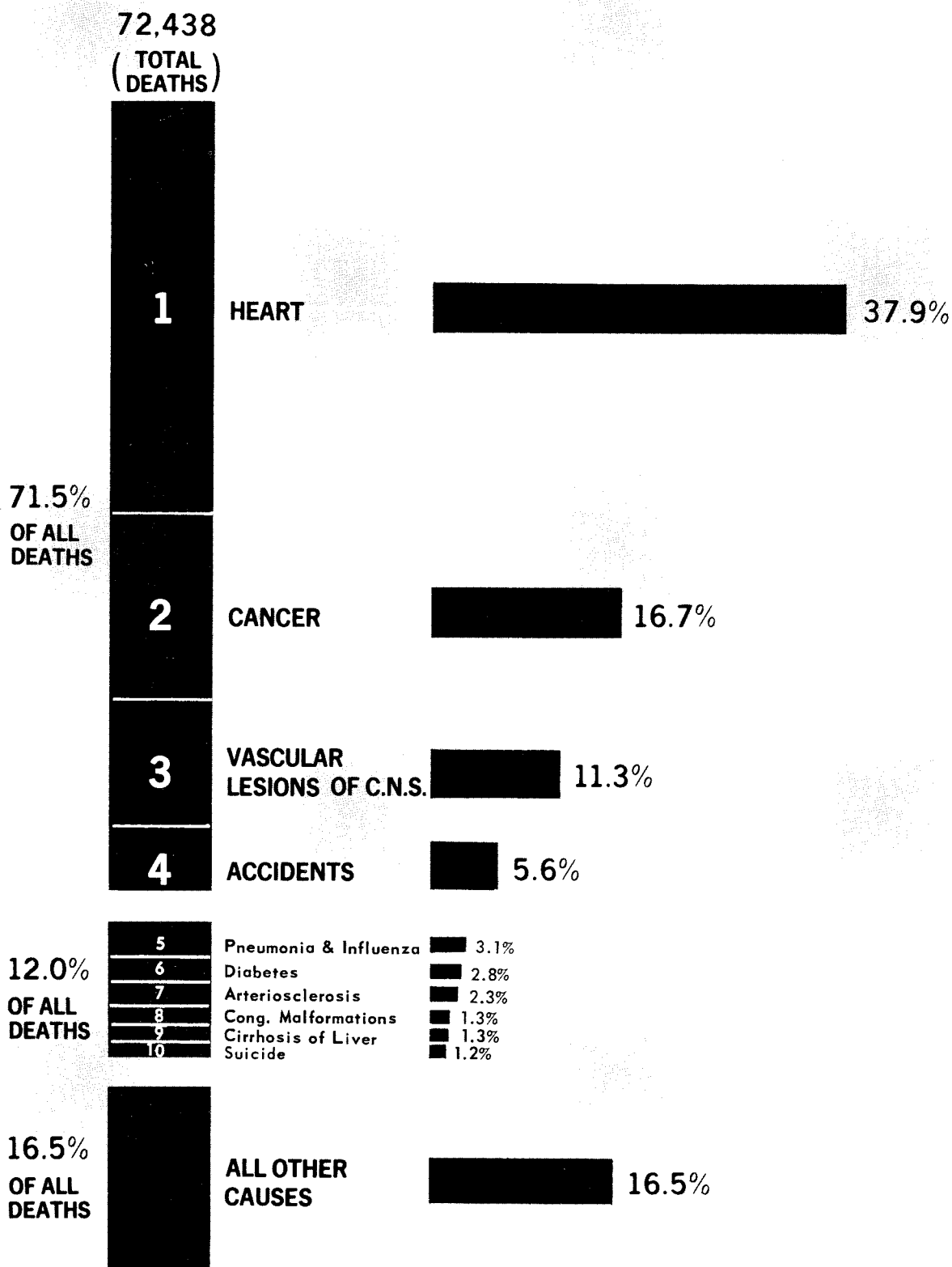


**CASE RATE LINE:** The major fluctuations in the earlier years probably represent the increased number of new cases found as a result of victims of pulmonary epidemics coming under medical care. Later fluctuations are undoubtedly due to variations in the intensity of case finding efforts and case reporting. In the mid-1940's the use of the miniature photo-fluorograph became widespread in mass screening. This accelerated program, together with general improvement in tuberculosis control and treatment methods, probably strongly stimulated the downward trend observed subsequent to 1945.

**DEATH RATE LINE:** The fluctuations in the earlier years of the death rate line are less marked than in the case rate line. The slight increase in the 1918 death rate probably represents the effect of the World War I influenza epidemic which added severe complications to the existent cases of tuberculosis. The later fairly constant downward trend reflects the effect of generally improved environmental conditions plus the tuberculosis treatment and control programs in operation. We can probably accept streptomycin and isoniazid as responsible for the fairly precipitous drops occurring after each was discovered and added to the treatment armamentarium.

# LEADING CAUSES OF DEATH

## Michigan 1963



# TEN LEADING CAUSES OF DEATH

## Distribution by Age Groups - Michigan 1963

CAUSE	TOTAL PERCENT	NUMBER			PERCENT						
		Under 15 Yrs	15 44	45 64	Under 15 Yrs	15 44	45 64	65 & Over*			
All Causes	72,438	100	5,477	18,049	43,427	100	7.7	7.5	24.9	59.9	
1. Diseases of heart	27,483	37.9	42	918	7,000	19,523	100	0.2	3.3	25.5	71.0
2. Cancer	12,078	16.7	170	906	4,467	6,535	100	1.4	7.5	37.0	54.1
3. Vascular lesions of c.n.s.	8,168	11.3	9	213	1,327	6,619	100	0.1	2.6	16.3	81.0
4. Accidents	4,033	5.6	602	1,487	850	1,094	100	14.9	36.9	21.1	27.1
5. Pneumonia and influenza**	2,229	3.1	445	136	349	1,299	100	20.0	6.1	15.6	58.3
6. Diabetes mellitus	2,049	2.8	13	107	533	1,396	100	0.7	5.2	26.0	68.1
7. Arteriosclerosis	1,652	2.3	-	3	67	1,582	100	0	0.2	4.0	95.8
8. Congenital malformations	961	1.3	815	77	51	18	100	84.8	8.0	5.3	1.9
9. Cirrhosis of liver	958	1.3	4	124	524	306	100	0.4	13.0	54.7	31.9
10. Suicide	855	1.2	6	338	355	156	100	0.7	39.5	41.5	18.3
All other causes	11,972	16.5	3,379	1,168	2,526	4,899	100	28.2	9.8	21.1	40.9

\* Includes 5 of unknown age.

\*\* Excluding pneumonia of newborn.

The four leading causes of death accounted for 72% of all deaths. The first three of these, heart, cancer, and vascular lesions occurred largely among the older age groups, with only 4%, 9%, and 3%, respectively, under 45 years of age.

However, in the fourth leading cause, accidental deaths, 52% were under 45 years of age. With the exception of deaths due to congenital malformations, which occur largely in infancy, accidental deaths is the only one of the ten leading causes with more than half (52%) of the deaths under 45 years of age. The fifth and tenth causes, pneumonia and influenza and suicide, follow in line in this respect with 26% and 40%, respectively, of the deaths under 45 years of age.

It is interesting to note that diabetes, the sixth leading cause of death, and heart disease, the first leading cause, follow a similar percentage distribution of age at death.

# LEADING CAUSES OF DEATH BY AGE GROUPS - Michigan 1963

under 1 year		1-4		5-14	
Immaturity	816 19.7%	Accidents	178 28.3%	Accidents	298 42.1%
Postnatal Asphyxia & Atelectasis	739 17.8%	Congenital Malformations	92 14.6%	Malignant Neoplasms	103 14.6%
Congenital Malformations	680 16.4%	Pneumonia & Influenza	78 12.4%	Congenital Malformations	43 6.1%
Birth Injuries	475 11.4%	Malignant Neoplasms	53 8.4%	Pneumonia & Influenza	32 4.5%
Pneumonia & Influenza *	428 10.3%	Gastro-Enteritis & Colitis	23 3.7%	Diseases of Heart	21 3.0%
<b>TOTAL DEATHS</b>	<b>4,150 (100%)</b>	<b>TOTAL DEATHS</b>	<b>628 (100%)</b>	<b>TOTAL DEATHS</b>	<b>707 (100%)</b>

15-24		25-34		35-44	
Accidents	659 56.0%	Accidents	393 30.8%	Diseases of Heart	759 25.1%
Malignant Neoplasms	107 9.1%	Malignant Neoplasms	184 14.4%	Malignant Neoplasms	615 20.3%
Suicide	56 4.8%	Diseases of Heart	138 10.8%	Accidents	435 14.4%
Homicide	47 4.0%	Suicide	104 8.2%	Suicide	178 5.9%
Congenital Malformations	34 2.9%	Homicide	58 4.5%	Vascular Lesions of C.N.S.	156 5.2%
<b>TOTAL DEATHS</b>	<b>1,176 (100%)</b>	<b>TOTAL DEATHS</b>	<b>1,275 (100%)</b>	<b>TOTAL DEATHS</b>	<b>3,026 (100%)</b>

45-54		55-64		65 and over	
Diseases of Heart	2,276 34.8%	Diseases of Heart	4,724 41.0%	Diseases of Heart	19,523 45.0%
Malignant Neoplasms	1,617 24.7%	Malignant Neoplasms	2,850 24.8%	Vascular Lesions of C.N.S.	6,619 15.2%
Accidents	448 6.9%	Vascular Lesions of C.N.S.	893 7.8%	Malignant Neoplasms	6,535 15.0%
Vascular Lesions of C.N.S.	434 6.6%	Accidents	402 3.5%	Arterio-sclerosis	1,582 3.6%
Cirrhosis of Liver	262 4.0%	Diabetes	370 3.2%	Diabetes	1,396 3.2%
<b>TOTAL DEATHS</b>	<b>6,537 (100%)</b>	<b>TOTAL DEATHS</b>	<b>11,512 (100%)</b>	<b>TOTAL DEATHS</b>	<b>43,427 (100%)</b>

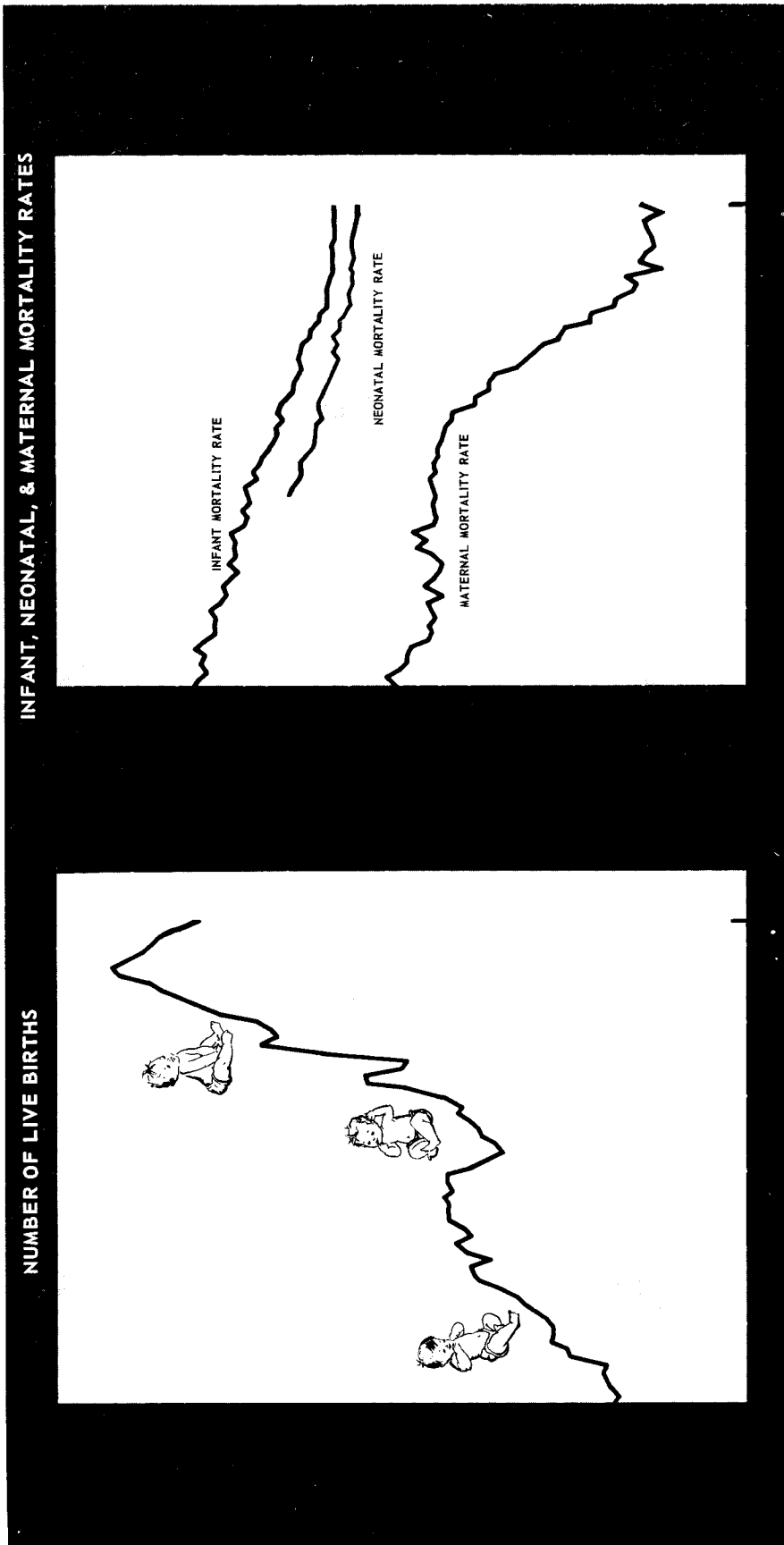
\* INCLUDES PNEUMONIA OF NEWBORN.

Diseases of the heart lead as a cause of death among all age groups 35 years and over and constitute an increasingly larger percentage of the total deaths in each successively older age group.

Accidents lead as a cause of death in all age groups under 35 years with the exception of infants under 1 year, and appear among the 5 leading causes in all age groups except the under 1 year and the 65 & over groups.

Malignant neoplasms first appear in the age group 1-4 years as the 4th ranking cause of death. It is the 2nd leading cause in the 5-14 years age group and maintains this position in all successive age groups until shifting to 3rd position in the 65 & over age group.

# LIVE BIRTHS, INFANT, NEONATAL, & MATERNAL MORTALITY RATES Michigan 1900-1963



The number of live births has followed an increasingly upward trend since 1900 even though there were minor decreases during the depression years of the 1930's, the World War II years of the mid 1940's, and the past five years. An all time high of 208,488 was reached in 1957 after 9 consecutive years of increase. The year 1958 marked the beginning of a decline which has continued through 1963.

Along with this upward trend in the number of live births, the trends of both maternal and infant death rates have declined. However, the two patterns of decline have not been the same. From 1900-1934 the mortality rates decreased more for infants than for mothers, 67% and 48% respectively. Since 1935 the pattern has reversed;

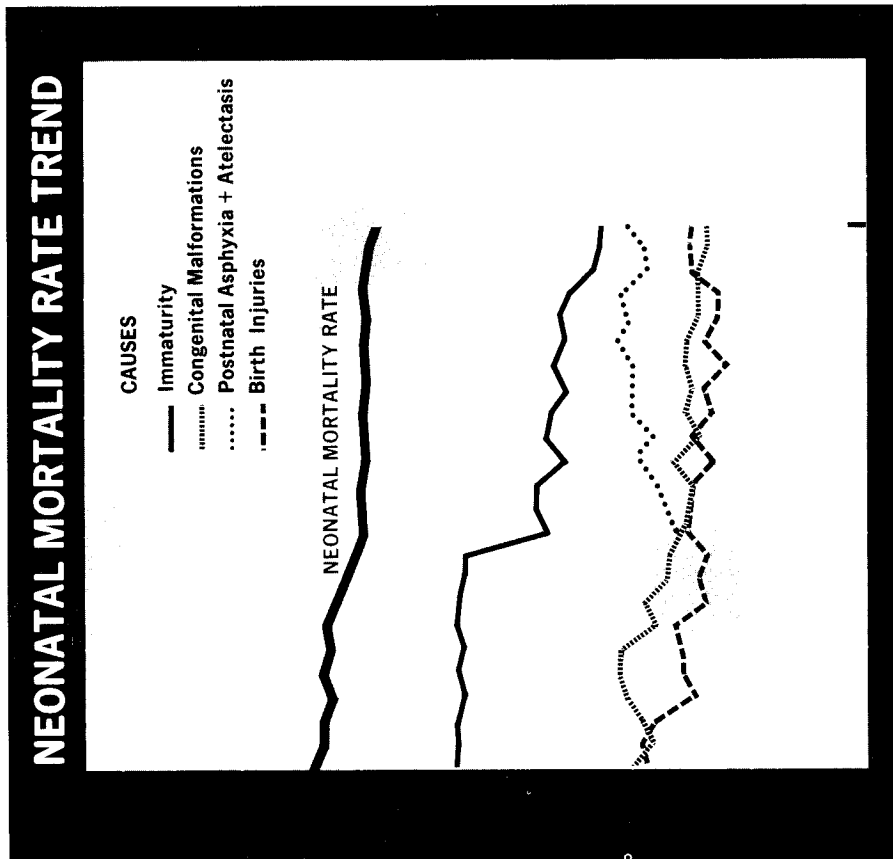
the mortality rate decreased almost twice as fast for mothers as for infants, 92% and 51% respectively.

Considerable progress, nevertheless, has been made in lowering the infant death rate with both the neonatal and postneonatal components contributing to the decline; however, the greater decline has been in the postneonatal age group. Since 1925 the postneonatal rate has declined by 83% from 35.1 to 5.8 as compared with a 57% decline in the neonatal rate from 40.6 to 17.4.

This progress in the reduction of the infant mortality rate has resulted in the number of neonatal deaths accounting for approximately 75% of all infant deaths in 1963 as compared with slightly over 50% in 1925.

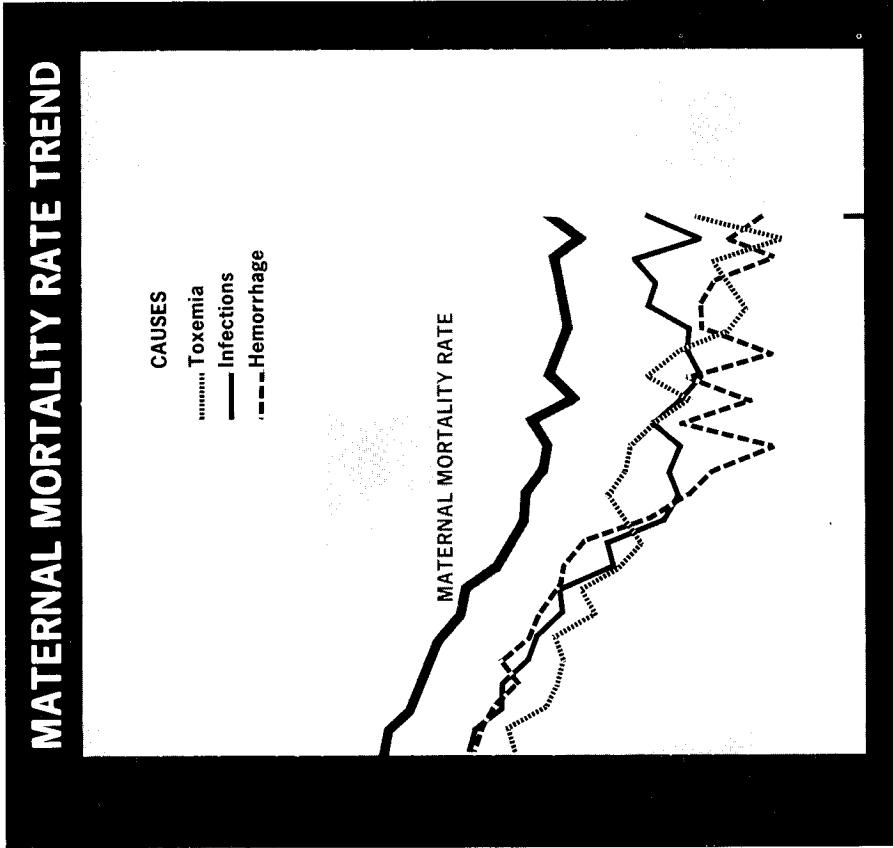
# TREND of LEADING CAUSES of NEONATAL and MATERNAL MORTALITY

## Michigan 1940 - 1963



The general trend of mortality rates for the above charted specific causes has been slowly downward with one exception. The exception Postnatal Asphyxia and Atelectasis has followed a slightly increasing trend, with minor fluctuations, since 1950. Immaturity, the leading cause of neonatal deaths, dropped suddenly in 1950 due largely to a change in coding classification.

*Note: Neonatal deaths are deaths under 28 days of life.*

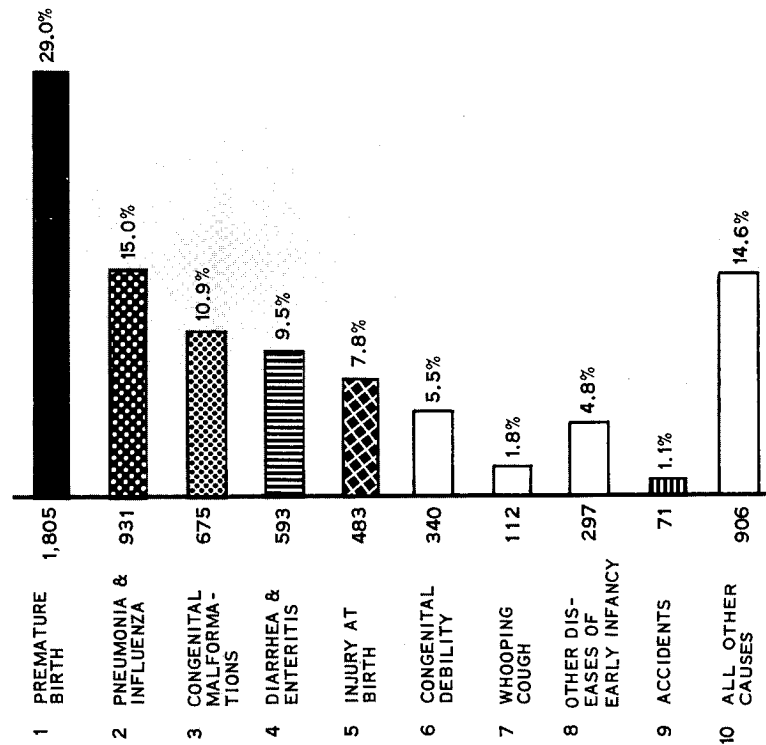


Prior to 1950 the mortality rates for Hemorrhage, Toxemia, and Infections, three major causes of Maternal deaths, followed a similar pattern of decline. Since then Toxemia and Hemorrhage, although following a fluctuating course, have continued to decline; conversely Infections, also with some fluctuation, have maintained an upward trend since 1956.

# INFANT DEATHS: LEADING CAUSES

## Michigan 1930 & 1963

### 1930

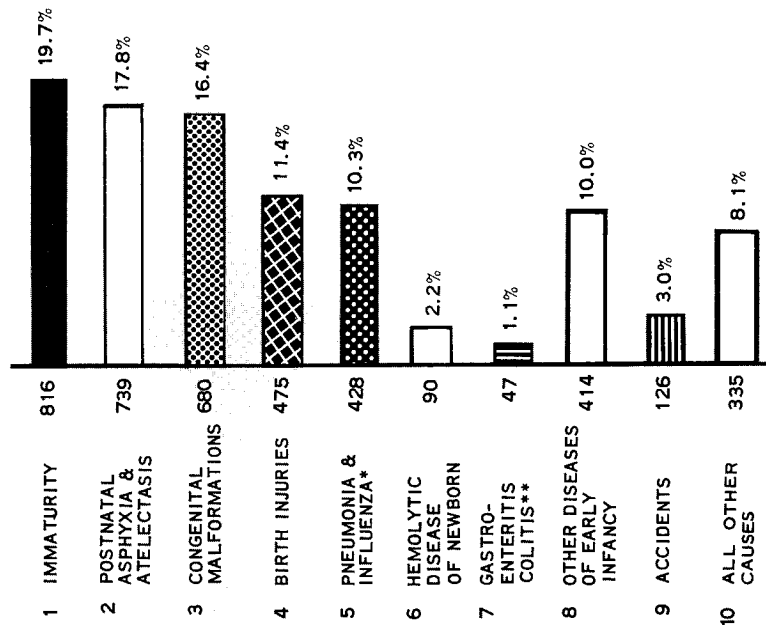


**Total Infant Deaths 6,213 (100%)**

*Infant deaths include deaths under 1 year of age.*

*Colored bars indicate leading causes of death common to both years.*

### 1963



\* Includes 93 pneumonia of newborn  
\*\* Includes 5 diarrhea of newborn

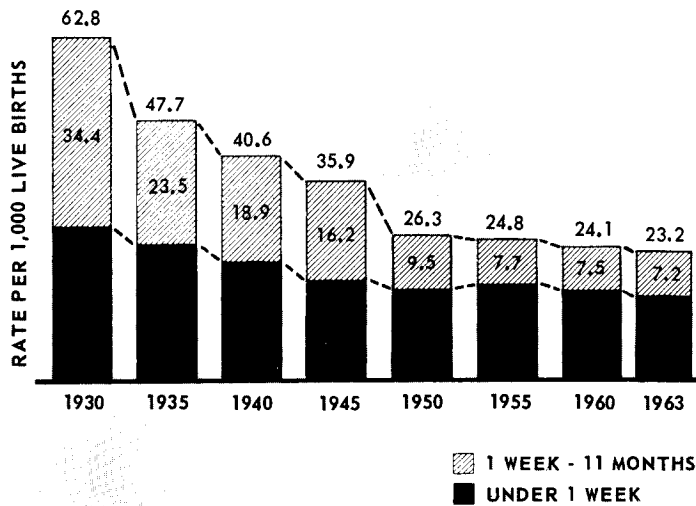
**Total Infant Deaths 4,150 (100%)**



# INFANT MORTALITY TRENDS

## Michigan 1930-1963

COMPARISON OF DEATH RATES  
UNDER 1 WEEK AND 1 WEEK-11 MONTHS

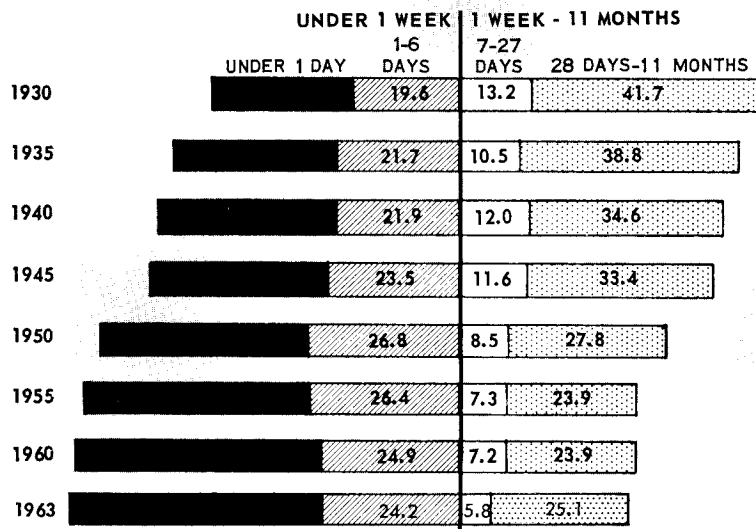


DURING PAST 33 YEARS

1 week - 11 months

under 1 week

AGE OF INFANT DEATHS - A SHIFTING PATTERN  
PERCENTAGE DISTRIBUTION



INFANT DEATHS

PROPORTIONATELY  
MORE AND MORE  
DURING FIRST WEEK OF LIFE

45%: under 1 week

55%: 1 week - 11 months

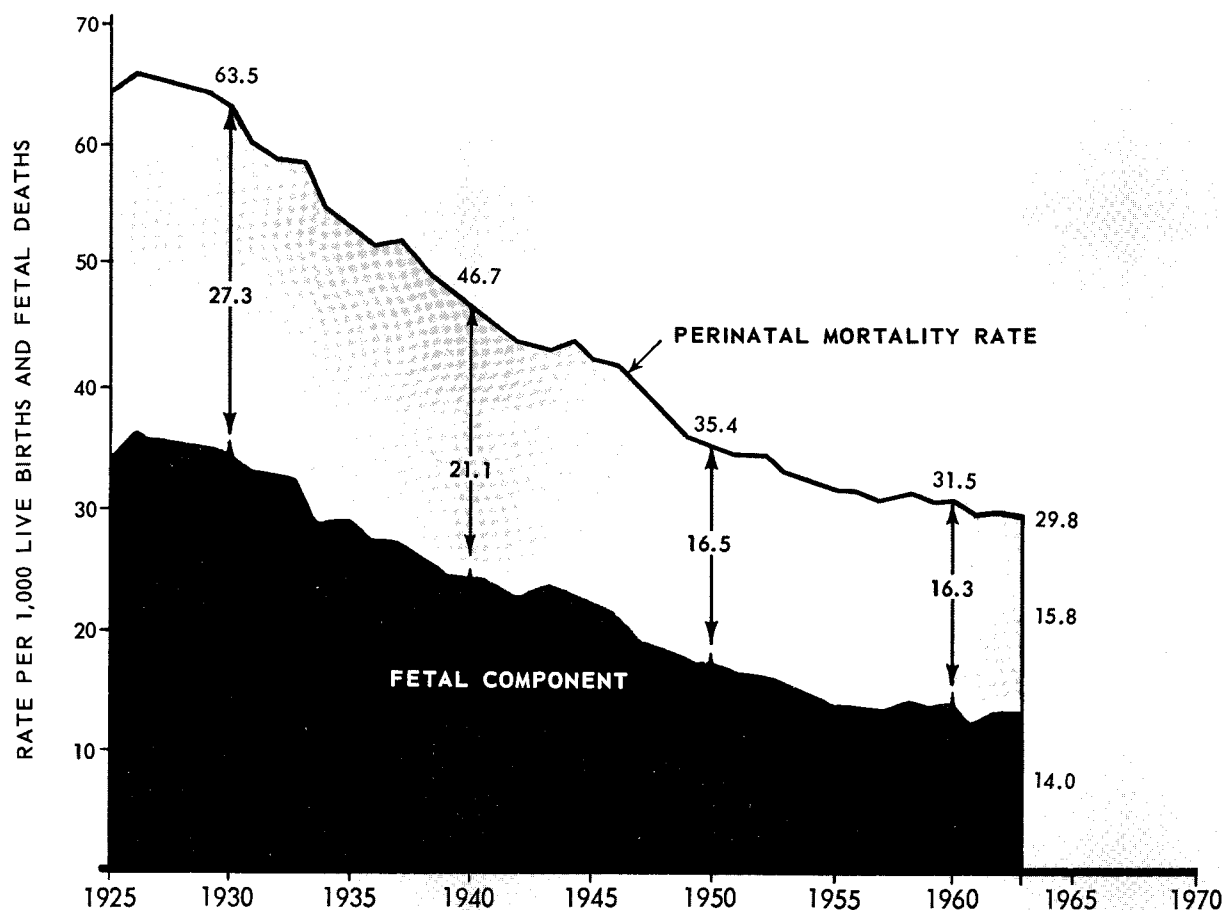
69%: under 1 week

31%: 1 week - 11 months

# PERINATAL MORTALITY TRENDS

## and RELATIONSHIP of COMPONENT PARTS

### MICHIGAN 1925 - 1963



The trend of the perinatal mortality rate has been downward from 1925 - 1963 with both the fetal and hebdomadal components contributing to the decline. Since 1925 the perinatal mortality rate has decreased by 54% with a 61% decrease in the fetal component and a 46% decrease in the hebdomadal component.

During this same period there has been a reversal in the relationship of these component parts.

	PERINATAL MORTALITY RATE	COMPONENTS	
		Fetal	Hebdomadal
1925	64.9	35.7	29.2
1963	29.8	14.0	15.8
Percent Decrease '25 - '63	54%	61%	46%

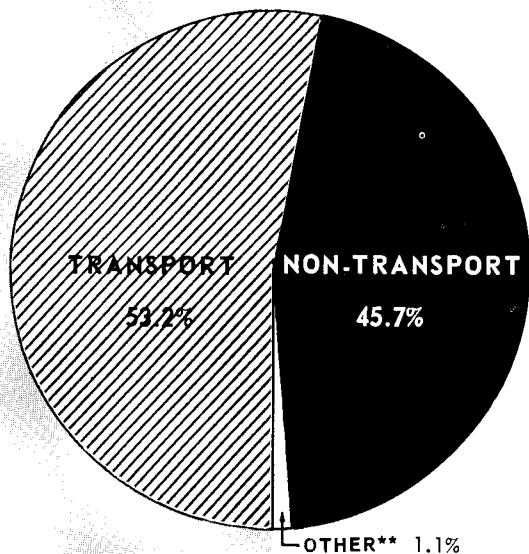
The fetal mortality rate was higher than the hebdomadal mortality rate in 1925. Since then the decreasing pattern of each of these two rates has resulted in a hebdomadal rate higher than the fetal rate from 1955 through 1963. Now the hebdomadal component of the perinatal problem is proportionately greater than the fetal.

*Note: Perinatal deaths include all reported fetal deaths and infant deaths under 1 week of age.  
Hebdomadal deaths include all deaths under 1 week of age.*

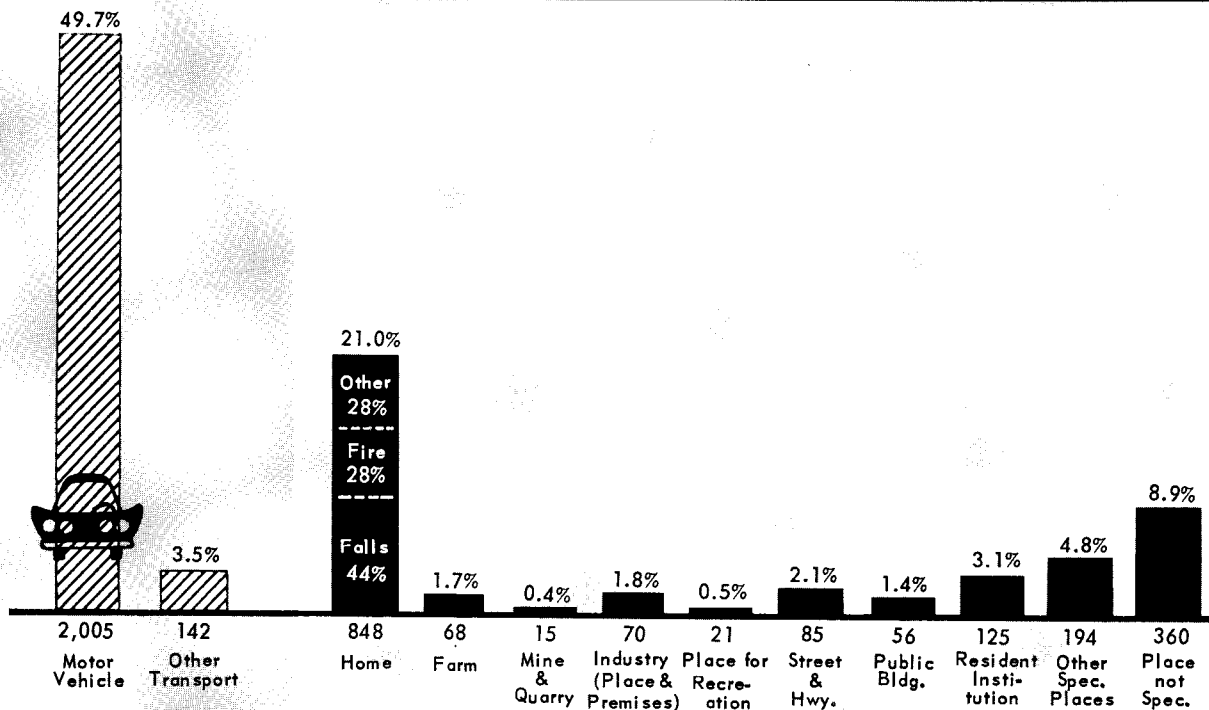
# 4,033 ACCIDENTAL DEATHS; 4th LEADING CAUSE OF DEATH

Michigan\* 1963

(percentage distribution)



## TRANSPORT    NON-TRANSPORT



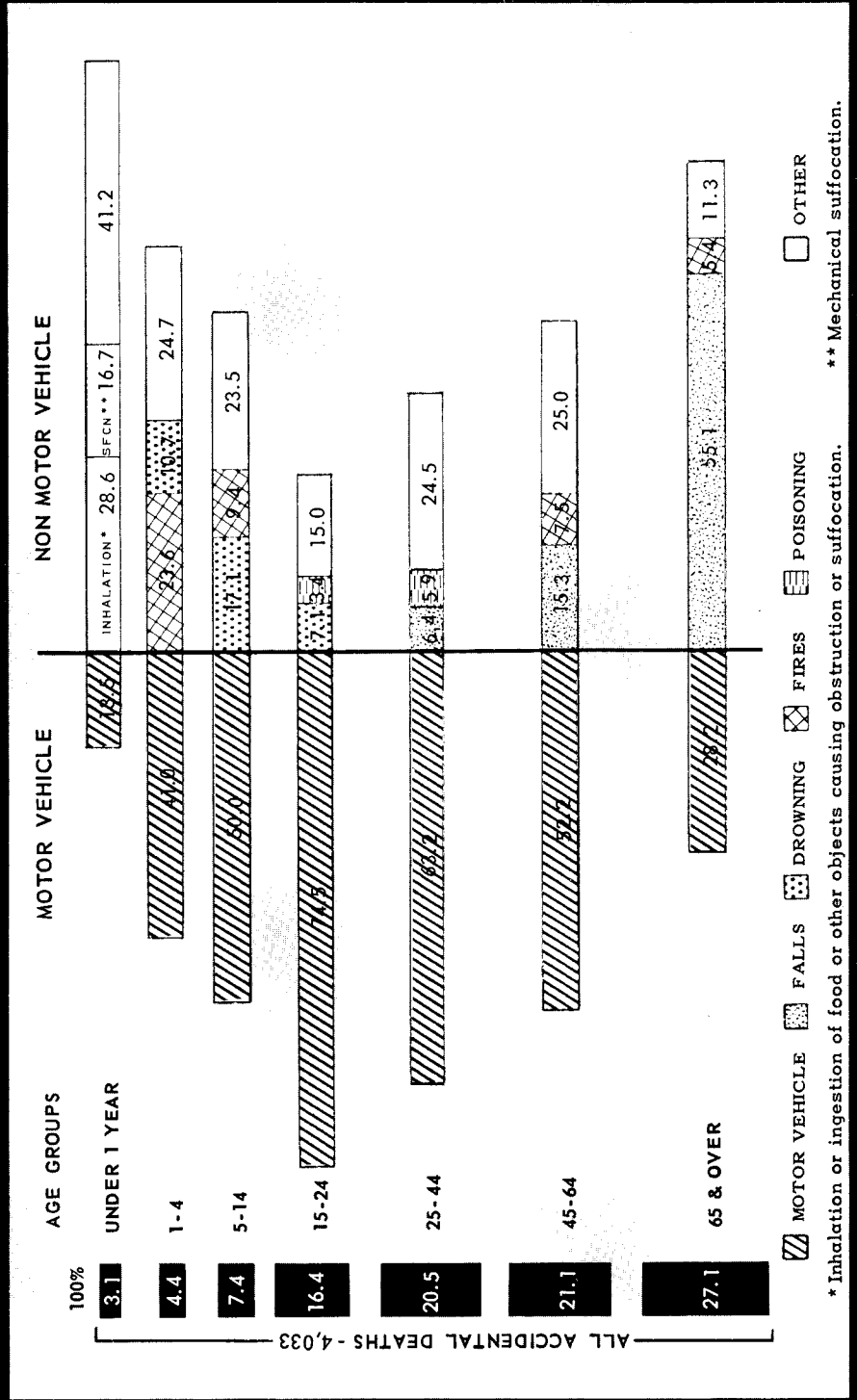
\* By place of residence

\*\* Includes therapeutic misadventures and late complications, complications of non-therapeutic procedures, late effects of injury and poisoning.

# ACCIDENTAL DEATHS by age and leading causes

## Percentage Distribution - Michigan 1963

COMPARISON OF MOTOR VEHICLE AND NON MOTOR VEHICLE WITHIN SPECIFIED AGE GROUPS

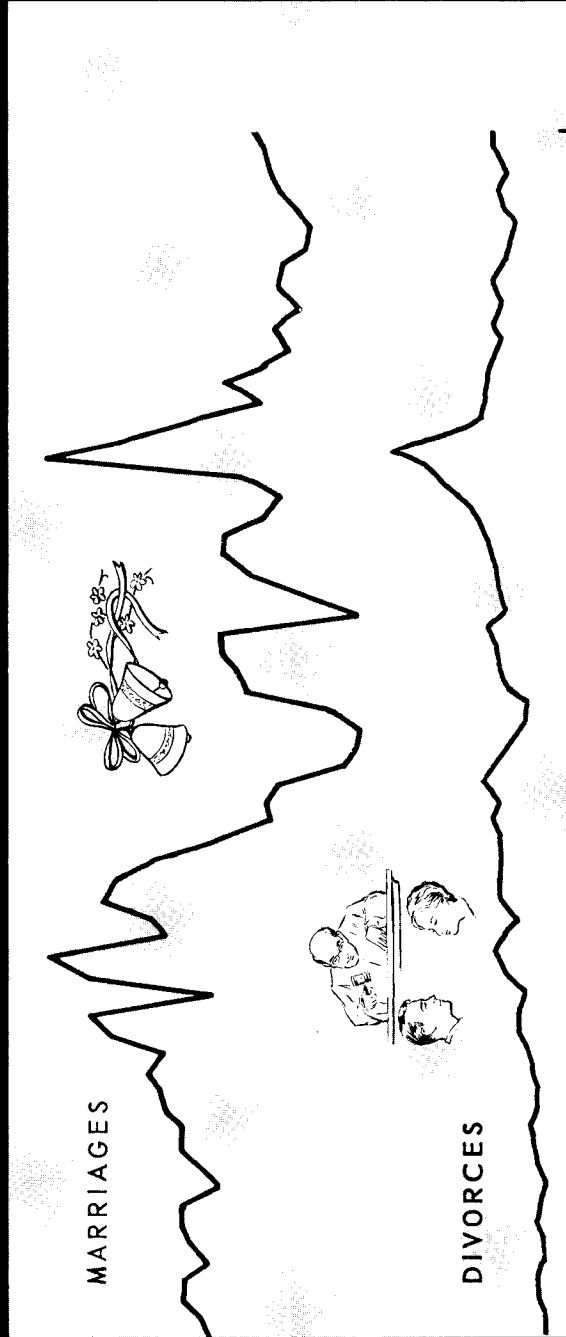


The proportion of motor vehicle accidental deaths increases with each advancing age group reaching a peak of 75% in the 15-24 year group; the proportion then decreases with each successively older age group.

Motor vehicle accidental deaths are the leading cause of accidental death in all but the two extreme age groups—Under 1 Year and 65 & Over. In the Under 1 Year group, Inhalation and Suffocation are leading causes. In the 65 & Over group, Falls are the leading cause accounting for 55% of all accidental deaths in this age group.

# MARRIAGES and DIVORCES

## Michigan 1900-1963



The two peak years for marriages were 1920 and 1946, with rates of 27.7 and 27.6, respectively, both of which reflect postwar demobilization. The marked decreases during the 1930's were undoubtedly due to the depression years. The peak year for divorces was 1946 with a rate of 10.2. This likewise reflects postwar demobilization. Since 1950 there have been minor annual fluctuations in both marriage and divorce rates; however, during the past five years there has been a consistent increase in the marriage rate.

*Note: All rates refer to persons married or divorced.*

BIRTHS		DEATHS				
Illegitimate	All Ages	Under 1 Yr	Under 28 Days	Perinatal	Due to Immaturity	Fetal
332	32,453	6,866			620	1,32
365	32,834	6,319			524	1,50
383	31,472	5,949			608	1,79
490	33,176	6,488			542	1,81
562	34,494	6,419			632	1,91
444	34,679	7,054			751	2,04
1,090	37,033	7,952			830	2,35
1,041	36,701	6,906			855	2,35
888	36,761	7,697			975	2,69
1,068	36,313	7,443			1,152	2,54
1,054	39,913	7,998			2,050	2,55
1,083	38,007	7,131			2,223	2,71
1,222	38,804	6,985			2,340	2,90
1,227	40,827	7,659			2,480	2,95
1,192	39,906	7,431			2,391	3,11
1,363	40,441	6,943			2,207	3,35
1,351	46,047	8,415			2,498	3,68
1,101	47,236	7,916			2,369	3,55
1,142	54,611	8,197			2,362	3,68
1,002	45,636	5,600			2,183	3,36
1,445	51,982	8,587			2,512	3,77
1,346	44,186	7,564			2,481	3,66
1,180	43,817	6,730			1,793	3,77
1,210	49,333	7,477			1,911	3,65
1,443	47,304	7,088	4,119	6,791	1,970	3,70
1,258	49,417	7,498	4,022	6,667	1,987	3,67
1,669	54,080	7,620	4,054	6,773	1,986	3,81
1,872	50,600	6,766	3,915	6,794	1,911	3,83
1,853	54,755	6,806	3,739	6,594	1,846	3,70
1,632	56,117	6,605	3,777	6,613	1,853	3,71
1,600	51,561	6,213	3,624	6,518	1,805	3,71
1,633	49,068	5,187	3,084	5,643	1,473	3,22
1,697	49,569	4,630	2,798	5,210	1,372	2,98
2,041	48,507	4,094	2,591	4,906	1,364	2,77
2,124	50,440	4,377	2,717	4,781	1,419	2,60
2,194	51,051	4,170	2,550	4,832	1,389	2,71
2,157	54,777	4,479	2,647	4,726	1,395	2,62
2,234	53,468	4,374	2,700	4,919	1,415	2,70
2,331	50,678	4,319	2,734	4,984	1,484	2,73
2,217	52,017	3,952	2,594	4,706	1,396	2,57
2,280	52,092	4,022	2,629	4,749	1,298	2,60
2,370	52,671	4,166	2,687	4,991	1,353	2,76
2,532	52,738	4,606	3,091	5,581	1,575	3,06
2,569	56,774	4,804	2,979	5,563	1,488	3,21
3,115	54,016	4,326	2,784	5,140	1,412	2,87
3,485	53,641	4,008	2,670	4,906	1,339	2,70
3,908	54,856	4,541	3,323	5,978	1,735	3,16
4,311	56,807	5,055	3,677	6,583	1,953	3,42
4,310	56,520	4,617	3,352	5,968	1,820	3,13
3,953	57,107	4,520	3,232	5,746	1,795	2,99

# TABLES

TABLE 1A - POPULATION; LIVE BIRTHS - TOTAL AND ILLEGITIMATE; DEATHS - ALL AGES, INFANT, NEONATAL, PERINATAL, FETAL, MATERNAL, AND DEATHS DUE TO IMMATURITY; MARRIAGES; AND DIVORCES  
MICHIGAN, 1900 - 1963

(Deaths exclusive of fetal deaths. Perinatal deaths include deaths under 1 week and fetal deaths. Divorces include annulments.)

Year	Population*	NUMBER											
		LIVE BIRTHS		DEATHS							Marriages	Divorces	
		Total	Illegitimate	All Ages	Under 1 Yr	Under 28 Days	Perinatal	Due to Immaturity	Fetal	Maternal			
1900	2,420,982	43,699	332	32,453	6,866				620	1,325	452	23,295	2,435
1901	2,459,901	43,221	365	32,834	6,319				524	1,501	531	24,079	2,448
1902	2,498,820	45,546	383	31,472	5,949				608	1,793	468	25,653	2,828
1903	2,537,739	46,020	490	33,176	6,488				542	1,814	427	26,029	2,945
1904	2,576,658	47,508	562	34,494	6,419				632	1,911	436	24,918	2,808
1905	2,615,578	46,976	444	34,679	7,054				751	2,044	416	26,307	2,825
1906	2,654,497	58,599	1,090	37,033	7,952				830	2,358	400	27,519	3,192
1907	2,693,416	59,029	1,041	36,701	6,906				855	2,358	391	27,940	3,107
1908	2,732,335	64,772	888	36,761	7,697				975	2,694	440	25,765	3,020
1909	2,771,254	64,323	1,068	36,313	7,443				1,152	2,540	405	27,353	3,516
1910	2,810,173	64,109	1,054	39,913	7,998				2,050	2,559	431	29,039	3,716
1911	2,895,997	65,756	1,083	38,007	7,131				2,223	2,716	451	29,859	4,125
1912	2,981,821	69,537	1,222	38,804	6,985				2,340	2,906	396	31,694	3,838
1913	3,067,645	73,058	1,227	40,827	7,659				2,480	2,953	528	33,529	3,978
1914	3,153,469	76,761	1,192	39,906	7,431				2,391	3,113	507	35,316	4,395
1915	3,239,293	81,100	1,363	40,441	6,943				2,207	3,357	488	35,527	4,757
1916	3,325,116	87,062	1,351	46,047	8,415				2,498	3,689	503	40,143	5,540
1917	3,410,940	89,419	1,101	47,236	7,916				2,369	3,550	586	42,791	5,627
1918	3,496,764	91,261	1,142	54,617	8,197				2,362	3,686	709	33,260	5,493
1919	3,582,588	84,062	1,002	45,636	7,560				2,183	3,361	578	45,579	7,469
1920	3,668,412	92,245	1,445	51,982	8,587				2,512	3,770	795	50,805	8,679
1921	3,785,799	96,035	1,346	44,186	7,564				2,481	3,669	605	41,508	7,676
1922	3,903,186	90,042	1,180	43,817	5,730				1,793	3,779	551	43,561	7,591
1923	4,020,573	92,956	1,210	49,333	7,477				1,911	3,657	583	49,569	8,745
1924	4,137,960	98,187	1,443	47,304	7,088	4,119	6,791		1,970	3,703	636	49,788	9,400
1925	4,255,347	98,983	1,258	49,417	7,498	4,022	6,667		1,987	3,670	629	46,276	9,650
1926	4,372,734	98,289	1,669	54,080	7,620	4,054	6,773		1,986	3,616	631	39,788	9,795
1927	4,490,121	99,940	1,872	50,600	6,766	3,915	6,794		1,911	3,834	667	36,276	10,617
1928	4,607,508	97,462	1,853	54,755	6,806	3,739	6,594		1,846	3,701	603	37,300	10,615
1929	4,724,895	98,695	1,632	56,117	6,605	3,777	6,613		1,853	3,710	617	36,816	12,094
1930	4,842,325	98,882	1,600	51,561	6,213	3,624	6,518		1,805	3,714	597	29,482	10,639
1931	4,883,703	90,547	1,633	49,068	5,187	3,084	5,643		1,473	3,220	539	28,856	9,507
1932	4,925,081	85,254	1,697	49,569	4,630	2,798	5,210		1,372	2,980	493	28,552	7,889
1933	4,966,459	80,482	2,041	48,507	4,094	2,591	4,906		1,364	2,775	447	33,132	7,671
1934	5,007,837	83,944	2,124	50,440	4,377	2,717	4,781		1,419	2,607	450	43,241	10,124
1935	5,049,216	87,403	2,194	51,051	4,170	2,550	4,832		1,389	2,717	438	45,313	10,844
1936	5,090,594	88,457	2,157	54,777	4,479	2,647	4,726		1,395	2,625	425	47,023	11,419
1937	5,131,972	91,566	2,234	53,468	4,374	2,700	4,919		1,415	2,707	326	47,954	12,472
1938	5,173,350	96,962	2,331	50,670	4,319	2,734	4,984		1,484	2,732	345	30,105	10,646
1939	5,214,728	94,432	2,217	52,017	3,952	2,594	4,706		1,396	2,572	280	37,725	11,589
1940	5,256,106	99,106	2,280	52,092	4,022	2,629	4,749		1,298	2,602	292	46,342	12,054
1941	5,437,546	107,498	2,370	52,671	4,166	2,687	4,991		1,353	2,769	298	50,989	13,317
1942	5,538,857	124,068	2,532	52,738	4,606	3,091	5,581		1,575	3,067	260	51,582	14,085
1943	5,377,329	125,441	2,569	56,774	4,804	2,979	5,563		1,488	3,213	237	44,385	15,259
1944	5,377,329	113,586	3,115	54,016	4,326	2,784	5,140		1,412	2,874	198	41,678	18,356
1945	5,435,092	111,557	3,485	53,641	4,008	2,670	4,906		1,339	2,703	166	48,329	21,133
1946	5,708,415	138,572	3,908	54,856	4,541	3,323	5,978		1,735	3,168	163	78,808	29,158
1947	6,069,000	160,275	4,311	56,807	5,055	3,677	6,583		1,953	3,422	173	71,319	21,386
1948	6,195,000	153,726	4,310	56,520	4,617	3,352	5,968		1,820	3,132	120	61,986	16,017
1949	6,352,000	156,469	3,953	57,107	4,520	3,232	5,746		1,795	2,994	105	53,109	16,274
1950	6,371,766	160,055	4,425	57,567	4,214	3,043	5,781		1,096	3,095	91	58,180	15,979
1951	6,545,000	172,451	4,367	59,181	4,505	3,296	6,088		1,232	3,158	94	53,411	15,446
1952	6,708,000	177,835	4,513	59,138	4,689	3,414	6,266		1,256	3,224	82	50,487	14,925
1953	6,852,000	182,968	4,770	62,087	4,728	3,389	6,188		1,114	3,180	79	53,308	16,537
1954	7,024,000	192,104	5,610	60,706	4,795	3,560	6,415		1,298	3,249	94	51,243	16,281
1955	7,236,000	196,294	5,883	63,087	4,873	3,707	6,381		1,272	3,029	61	55,698	17,676
1956	7,516,000	206,068	6,494	64,352	5,047	3,796	6,655		1,244	3,245	84	57,068	16,228
1957	7,803,000	208,488	6,789	66,435	5,093	3,884	6,668		1,322	3,154	79	55,121	15,442
1958	7,866,000	202,690	6,816	65,899	4,980	3,789	6,516		1,208	3,101	69	55,159	14,040
1959	7,960,000	198,301	6,729	66,812	4,846	3,674	6,250		1,201	2,928	72	58,826	16,168
1960	7,823,194	195,056	7,200	67,912	4,702	3,580	6,247		1,148	3,008	75	61,090	16,656
1961	7,903,000	192,825	8,017	67,375	4,604	3,475	5,875		1,003	2,735	78	63,320	16,219
1962	7,939,000	182,790	7,998	70,049	4,367	3,251	5,669		907	2,703	56	65,002	17,500
1963	8,030,000	178,871	8,769	72,438	4,150	3,109	5,407		816	2,540	71	68,160	17,479

\* 1900 - 1960: United States Bureau of Census April 1 Census counts and July 1 estimates.  
1961 to Date: University of Michigan Population Studies Center July 1 estimate.

Note: For the years 1900 - 1910 and 1912, illegitimate live births also include illegitimate fetal deaths. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. For 1910 through 1921 deaths due to immaturity also include deaths from congenital debility.

TABLE 1B - LIVE BIRTH RATES - TOTAL AND ILLEGITIMATE; DEATH RATES - ALL AGES, INFANT, NEONATAL, PERINATAL, FETAL, MATERNAL AND DEATH RATES DUE TO IMMATUREITY; MARRIAGE AND DIVORCE RATES  
MICHIGAN, 1900 - 1963

(Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population. Illegitimate live birth ratio, fetal death ratio, death rates under 1 year, under 28 days, and death rates due to immaturity per 1,000 live births. Maternal death rates per 10,000 live births. Perinatal death rate - number of deaths under 1 week and fetal deaths per 1,000 live births and fetal deaths.)

Year	LIVE BIRTHS		DEATHS							PERSONS	
	Total	Illegit- imate	All Ages	Under 1 Yr	Under 28 Days	Peri- natal	Due to Immaturity	Fetal	Maternal	Married	Divorced
1900	18.1	7.6	13.4	157.1			14.2	30.3	103.4	19.2	2.0
1901	17.6	8.4	13.3	146.2			12.1	34.7	122.9	19.6	2.0
1902	18.2	8.4	12.6	130.6			13.3	39.4	102.8	20.5	2.3
1903	18.1	10.6	13.1	141.0			11.8	39.4	92.8	20.5	2.3
1904	18.4	11.8	13.4	135.1			13.3	40.2	91.8	19.3	2.2
1905	18.0	9.5	13.3	150.2			16.0	43.5	88.6	20.1	2.2
1906	22.1	18.6	14.0	135.7			14.2	40.2	68.3	20.7	2.4
1907	21.9	17.6	13.6	117.0			14.5	39.9	66.2	20.7	2.3
1908	23.7	13.7	13.5	118.8			15.1	41.6	67.9	18.9	2.2
1909	23.2	16.6	13.1	115.7			17.9	39.5	63.0	19.7	2.5
1910	22.8	16.4	14.2	124.8			32.0	39.9	67.2	20.7	2.6
1911	22.7	16.5	13.1	108.4			33.8	41.3	68.6	20.6	2.8
1912	23.3	17.6	13.0	100.4			33.6	41.8	56.9	21.3	2.6
1913	23.8	16.8	13.3	104.8			33.9	40.4	72.3	21.9	2.6
1914	24.3	15.5	12.7	96.8			31.1	40.6	66.0	22.4	2.8
1915	25.0	16.8	12.5	85.6			27.2	41.4	60.2	21.9	2.9
1916	26.2	15.5	13.8	96.7			28.7	42.4	57.8	24.1	3.3
1917	26.2	12.3	13.8	88.5			26.5	39.7	65.5	25.1	3.3
1918	26.1	12.5	15.6	89.8			25.9	40.4	77.7	19.0	3.1
1919	23.5	11.9	12.7	89.9			26.0	40.0	68.8	25.4	4.2
1920	25.1	15.7	14.2	93.1			27.2	40.9	86.2	27.7	4.7
1921	25.4	14.0	11.7	79.0			25.8	38.2	63.0	21.9	4.1
1922	23.1	13.1	11.2	74.7			19.9	42.0	61.2	22.3	3.9
1923	23.1	13.0	12.3	80.4			20.6	39.3	62.7	24.7	4.4
1924	23.7	14.7	11.4	72.2	41.9	66.7	20.1	37.7	64.8	24.1	4.5
1925	23.3	12.7	11.6	75.7	40.6	64.9	20.1	37.1	63.5	21.7	4.5
1926	22.5	17.0	12.4	77.5	41.2	66.3	20.2	38.8	64.2	18.7	4.5
1927	22.3	18.7	11.3	67.7	39.2	65.5	19.1	38.4	66.7	16.2	4.7
1928	21.2	19.0	11.9	69.8	38.4	65.2	18.9	38.0	61.9	16.2	4.6
1929	20.9	16.5	11.9	66.9	38.3	64.6	18.8	37.6	62.5	15.6	5.1
1930	20.4	16.2	10.6	62.8	36.6	63.5	18.3	37.6	60.4	12.2	4.4
1931	18.5	18.0	10.1	57.3	34.1	60.2	16.3	35.6	59.5	11.8	3.9
1932	17.3	19.9	10.1	54.3	32.8	59.0	16.1	35.0	57.8	11.6	3.2
1933	16.2	25.4	9.8	50.9	32.2	58.9	16.9	34.5	55.5	13.3	3.1
1934	16.8	25.3	10.1	52.1	32.4	55.2	16.9	31.1	53.6	17.3	4.0
1935	17.3	25.1	10.1	47.7	29.2	53.6	15.9	31.1	50.1	17.9	4.3
1936	17.4	24.4	10.8	50.6	29.9	51.9	15.8	29.7	48.0	18.5	4.5
1937	17.8	24.4	10.4	47.8	29.5	52.2	15.5	29.6	35.6	18.7	4.9
1938	18.7	24.0	9.8	44.5	28.2	50.0	15.3	28.2	35.6	11.6	4.1
1939	18.1	23.5	10.0	41.8	27.5	48.5	14.8	27.2	29.6	14.5	4.4
1940	18.9	23.0	9.9	40.6	26.5	46.7	13.1	26.3	29.5	17.6	4.6
1941	19.8	22.0	9.7	38.8	25.0	45.3	12.6	25.8	27.7	18.8	4.9
1942	22.4	20.4	9.5	37.1	24.9	43.9	12.7	24.7	21.0	18.6	5.1
1943	23.3	20.5	10.6	38.3	23.7	43.2	11.9	25.6	18.9	16.5	5.7
1944	21.1	27.4	10.0	38.1	24.5	44.1	12.4	25.3	17.4	15.5	6.8
1945	20.5	31.2	9.9	35.9	23.9	42.9	12.0	24.2	14.9	17.8	7.8
1946	24.3	28.2	9.6	32.8	24.0	42.2	12.5	22.9	11.8	27.6	10.2
1947	26.4	26.9	9.4	31.5	22.9	40.2	12.2	21.4	10.8	23.5	7.1
1948	24.8	28.0	9.1	30.0	21.8	38.0	11.8	20.4	7.8	20.0	5.2
1949	24.6	25.3	9.0	28.9	20.7	36.0	11.5	19.1	6.7	16.7	5.1
1950	25.1	27.6	9.0	26.3	19.0	35.4	6.8	19.3	5.7	18.3	5.0
1951	26.3	25.3	9.0	26.1	19.1	34.7	7.1	18.3	5.5	16.3	4.7
1952	26.5	25.4	8.8	26.4	19.2	34.6	7.1	18.1	4.6	15.1	4.4
1953	26.7	26.1	9.1	25.8	18.5	33.2	6.1	17.4	4.3	15.6	4.8
1954	27.3	29.2	8.6	25.0	18.5	32.8	6.8	16.9	4.9	14.6	4.6
1955	27.1	30.0	8.7	24.8	18.9	32.0	6.5	15.4	3.1	15.4	4.9
1956	27.4	31.5	8.6	24.5	18.4	31.8	6.0	15.7	4.1	15.2	4.3
1957	26.7	32.6	8.5	24.4	18.6	31.5	6.3	15.1	3.8	14.1	4.0
1958	25.8	33.6	8.4	24.6	18.7	31.7	6.0	15.3	3.4	14.0	3.6
1959	24.9	33.9	8.4	24.4	18.5	31.1	6.1	14.8	3.6	14.8	4.1
1960	24.9	36.9	8.7	24.1	18.4	31.5	5.9	15.4	3.8	15.6	4.3
1961	24.4	41.6	8.5	23.9	18.0	30.0	5.2	14.2	4.0	16.0	4.1
1962	23.0	43.8	8.8	23.9	17.8	30.6	5.0	14.8	3.1	16.4	4.4
1963	22.3	49.0	9.0	23.2	17.4	29.8	4.6	14.2	4.0	17.0	4.4

Note: For the years 1900 - 1910 and 1912, illegitimate live births also include illegitimate fetal deaths. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. For 1910 through 1921 deaths due to immaturity also include deaths from congenital debility.



TABLE 2A - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES  
MICHIGAN, 1900 - 1963

Year	Diphtheria	Scarlet fever	Smallpox	Typhoid fever	Whooping cough	Measles	Infectious hepatitis	Tuberculosis (all forms)	Meningococcal infections	Poliomyelitis	Syphilis	Gonorrhea	Chancroid
1900	2,706	6,734	694	5,122	3,375	20,356		2,721	654				
1901	2,498	7,726	5,088	3,002	2,955	4,629		2,915	506				
1902	2,993	6,582	7,086	2,456	3,534	11,978		2,658	528				
1903	3,670	5,353	6,341	2,840	4,172	8,941		2,745	525				
1904	3,510	4,088	5,753	3,028	1,779	10,386		2,928	448				
1905	2,159	2,286	2,985	2,774	1,196	6,061		2,590	577				
1906	3,648	3,066	1,240	3,163	1,364	7,403		2,653	533				
1907	2,935	2,514	1,712	1,953	872	12,139		2,699	575				
1908	2,658	3,087	2,306	2,656	1,248	4,775		2,705	487				
1909	3,109	5,153	1,533	2,694	1,054	9,047		3,423	457				
1910	3,433	6,501	3,319	3,361	1,136	13,934		4,415	522	104			
1911	3,762	5,177	898	2,660	1,897	9,639		5,254	478	68			
1912	3,294	4,533	1,127	2,847	1,255	2,834		1,958	88	78			
1913	5,505	4,140	1,995	2,253	929	9,185		1,920	165	56			
1914	5,149	3,769	1,527	2,167	1,822	11,356		2,566	205	49			
1915	4,386	3,402	1,094	1,956	2,258	4,438		3,648	107	95			
1916	5,625	6,932	1,581	2,513	1,837	12,143		7,076	163	598			
1917	8,499	14,322	3,674	1,723	3,211	14,472		4,856	75	91			
1918	6,128	5,944	5,241	1,339	2,563	6,726		3,655	95	121			
1919	7,896	6,269	2,381	1,254	1,829	8,885		4,231	75	155	5,077	7,910	186
1920	10,360	10,280	4,818	1,421	7,171	22,364		4,994	203	67	8,117	11,463	262
1921	12,075	10,893	4,512	1,837	6,696	3,043		5,708	173	483	7,421	9,774	153
1922	8,513	9,687	1,230	1,108	5,642	12,107		5,573	159	43	7,900	9,717	90
1923	7,725	12,868	2,311	982	7,617	30,041		5,471	186	39	10,480	9,597	235
1924	6,011	12,989	4,527	782	4,364	18,290		5,570	157	647	13,000	10,490	183
1925	3,925	12,303	784	962	7,576	10,332		5,785	128	99	14,668	10,660	104
1926	5,377	12,681	549	583	8,776	39,946		5,387	96	107	14,872	10,707	103
1927	4,575	11,011	1,467	581	6,818	8,303		5,406	138	282	15,713	9,318	107
1928	3,724	10,486	1,335	390	9,700	27,039		5,885	276	77	15,323	8,592	100
1929	4,618	14,245	2,410	310	9,340	18,040		6,248	1,864	180	16,606	9,661	333
1930	3,206	11,174	2,375	504	7,937	28,129		5,128	901	208	16,538	8,554	163
1931	1,831	13,023	915	424	11,448	6,212		6,132	293	1,137	14,662	7,843	170
1932	1,188	15,255	222	513	13,091	42,129		7,103	129	112	11,969	6,963	140
1933	1,152	16,419	46	453	11,720	21,654		6,624	86	93	7,691	6,447	85
1934	614	19,238	49	486	11,255	6,528		5,264	53	230	6,483	6,188	132
1935	645	11,849	16	355	13,427	79,061		4,642	113	614	6,416	6,372	110
1936	661	12,650	32	287	14,287	2,453		5,157	120	152	6,401	6,460	133
1937	842	24,798	152	241	11,426	6,154		6,469	87	421	8,708	7,072	244
1938	619	18,362	274	285	14,563	79,400		6,335	69	59	14,684	7,046	341
1939	452	15,836	371	177	8,997	12,948		6,119	46	904	13,144	6,364	286
1940	264	10,366	76	120	11,757	20,206		6,063	49	1,228	9,999	7,650	218
1941	242	8,756	114	147	16,512	70,748		5,371	49	270	11,370	8,767	359
1942	243	7,503	17	74	11,602	8,569		5,720	66	162	12,461	8,753	276
1943	281	5,044	18	115	12,091	51,764		6,546	757	255	15,933	9,526	260
1944	419	8,963	10	78	4,049	26,711		6,419	857	884	17,288	11,987	185
1945	630	9,304	16	59	5,339	6,328	134	5,471	270	215	16,046	12,565	244
1946	385	5,977	3	85	8,116	42,261	34	5,548	185	1,091	18,051	12,635	206
1947	238	4,834	1	77	10,472	9,574	14	6,470	113	646	15,276	10,989	216
1948	126	5,934	-	49	2,668	42,952	9	6,109	107	775	12,100	9,448	465
1949	119	8,852	-	48	4,157	20,279	28	5,953	120	2,909	8,740	9,427	336
1950	84	4,665	-	43	9,184	38,245	48	5,538	133	2,029	8,830	8,678	202
1951	48	8,181	-	33	3,156	15,227	325	6,144	138	1,463	6,532	8,494	187
1952	45	8,325	-	53	1,992	32,941	283	6,152	169	3,912	7,377	7,691	58
1953	12	5,885	-	31	2,932	23,334	868	5,643	151	2,346	5,619	8,790	43
1954	57	5,142	-	30	5,620	40,725	1,419	5,764	150	2,168	4,686	9,940	47
1955	59	5,880	-	24	4,249	23,882	1,244	5,488	170	1,177	4,865	10,306	58
1956	220	7,349	-	56	1,907	41,966	814	5,515	182	656	4,785	9,598	52
1957	130	7,193	-	12	1,363	19,070	657	5,011	175	498	4,571	8,428	97
1958	6	5,380	-	18	1,233	41,448	688	5,587	228	1,228	4,287	8,621	178
1959	3	9,452	-	8	3,001	12,234	1,136	4,743	141	448	3,421	8,033	136
1960	9	9,287	-	14	1,129	36,161	2,113	4,127	169	88	3,647	8,372	112
1961	3	8,347	-	7	639	29,391	4,607	3,838	253	40	3,309	9,505	102
1962	4	8,116	-	12	1,756	25,303	3,280	3,474	139	21	4,331	11,654	75
1963	5	11,964	-	14	1,410	48,752	2,661	3,298	104	18	5,512	11,043	98

Note: Meningococcal infections - prior to 1952 data were for meningococcal meningitis.

TABLE 2B - CASE RATES OF CERTAIN REPORTED COMMUNICABLE DISEASES  
MICHIGAN, 1900 - 1963

(Rates per 100,000 Population)

Year	Diphtheria	Scarlet fever	Smallpox	Typhoid fever	Whooping cough	Measles	Infectious hepatitis	Tuberculosis (all forms)	Meningococcal infections	Poliomyelitis	Syphilis	Gonorrhea	Chancroid
1900	111.8	278.2	28.7	211.6	139.4	840.8		112.4	27.0				
1901	101.5	314.1	206.8	122.0	120.1	188.2		118.5	20.6				
1902	119.8	263.4	283.6	98.3	141.4	479.3		106.4	21.1				
1903	144.6	210.9	249.9	111.9	164.4	352.3		108.2	20.7				
1904	136.2	158.7	223.3	117.5	69.0	403.1		113.6	17.4				
1905	82.5	87.4	114.1	106.1	45.7	231.7		99.0	22.1				
1906	137.4	115.5	46.7	119.2	51.4	278.9		99.9	20.1				
1907	109.0	93.3	63.6	72.5	32.4	450.7		100.2	21.3				
1908	97.3	113.0	84.4	97.2	45.7	174.8		99.0	17.8				
1909	112.2	185.9	55.3	97.2	38.0	326.5		123.5	16.5				
1910	122.2	231.3	118.1	119.6	40.4	495.8		157.1	18.6	3.7			
1911	129.9	178.8	31.0	91.8	65.5	332.8		181.4	16.5	2.3			
1912	110.5	152.0	37.8	95.5	42.1	95.0		65.7	3.0	2.6			
1913	179.5	135.0	65.0	73.4	30.3	299.4		62.6	5.4	1.8			
1914	163.3	119.5	48.4	68.7	57.8	360.1		81.4	6.5	1.6			
1915	135.4	105.0	33.8	60.4	69.7	137.0		112.6	3.3	2.9			
1916	169.2	208.5	47.5	75.6	55.2	365.2		212.8	4.9	18.0			
1917	249.2	419.9	107.7	50.5	94.1	424.3		142.4	2.2	2.7			
1918	175.2	170.0	149.9	38.3	73.3	192.4		104.5	2.7	3.5			
1919	220.4	175.0	66.5	35.0	51.1	248.0		118.1	2.1	4.3	141.7	220.8	5.2
1920	282.4	280.2	131.3	38.7	195.5	609.6		136.1	5.5	1.8	221.3	312.5	7.1
1921	318.9	287.7	119.2	48.5	176.9	80.4		150.8	4.6	12.8	196.0	258.2	4.0
1922	218.1	248.2	31.5	28.4	144.5	310.2		142.8	4.1	1.1	202.4	248.9	2.3
1923	192.1	320.1	57.5	24.4	189.5	747.2		136.1	4.6	1.0	260.7	238.7	5.8
1924	145.3	313.9	109.4	18.9	105.5	442.0		134.6	3.8	15.6	314.2	253.5	4.4
1925	92.2	289.1	18.4	22.6	178.0	242.8		135.9	3.0	2.3	344.7	250.5	2.4
1926	123.0	290.0	12.6	13.3	200.7	913.5		123.2	2.2	2.4	340.1	244.9	2.4
1927	101.9	245.2	32.7	12.9	151.8	184.9		120.4	3.1	6.3	349.9	207.5	2.4
1928	80.8	227.6	29.0	8.5	210.5	586.9		127.7	6.0	1.7	332.6	186.5	2.2
1929	97.7	301.5	51.0	6.6	197.7	381.8		132.2	39.4	3.8	351.4	204.5	7.0
1930	66.2	230.8	49.0	10.4	163.9	580.9		105.9	18.6	4.3	341.5	176.6	3.4
1931	37.5	266.7	18.7	8.7	234.4	127.2		125.6	6.0	23.3	300.2	160.6	3.5
1932	24.1	309.7	4.5	10.4	265.8	855.4		144.2	2.6	2.3	243.0	141.4	2.8
1933	23.2	330.6	0.9	9.1	236.0	436.0		133.4	1.7	1.9	154.9	129.8	1.7
1934	12.3	384.2	1.0	9.7	224.8	130.4		105.1	1.1	4.6	129.5	123.6	2.6
1935	12.8	234.7	0.3	7.0	265.9	1,565.8		91.9	2.2	12.2	127.1	126.2	2.2
1936	13.0	248.5	0.6	5.6	280.7	48.2		101.3	2.4	3.0	125.7	126.9	2.6
1937	16.4	483.2	3.0	4.7	222.6	119.9		126.1	1.7	8.2	169.7	137.8	4.8
1938	12.0	354.9	5.3	5.5	281.5	1,534.8		122.5	1.3	1.1	283.8	136.2	6.6
1939	8.7	303.7	7.1	3.4	172.5	248.3		117.3	0.9	17.3	252.0	122.0	5.5
1940	5.0	197.2	1.4	2.3	223.7	384.4		115.3	0.9	23.4	190.2	145.5	4.1
1941	4.5	161.0	2.1	2.7	303.7	1,301.1		98.8	0.9	5.0	209.1	161.2	6.6
1942	4.4	135.5	0.3	1.3	209.5	154.7		103.3	1.2	2.9	225.0	158.0	5.0
1943	5.2	93.8	0.3	2.1	224.8	962.6		121.7	14.1	4.7	296.3	177.1	4.8
1944	7.8	166.7	0.2	1.5	75.3	496.7		119.4	15.9	16.4	321.5	222.9	3.4
1945	11.6	171.2	0.3	1.1	98.2	116.4	2.5	100.7	5.0	4.0	295.2	231.2	4.5
1946	6.7	104.7	0.1	1.5	142.2	740.3	0.6	97.2	3.2	19.1	316.2	221.3	3.6
1947	3.9	79.6	0.0	1.3	172.5	157.8	0.2	106.6	1.9	10.6	251.7	181.1	3.6
1948	2.0	95.8	0	0.8	43.1	693.3	0.1	98.6	1.7	12.5	195.3	152.5	7.5
1949	1.9	139.4	0	0.8	65.4	319.3	0.4	93.7	1.9	45.8	137.6	148.4	5.3
1950	1.3	73.2	0	0.7	144.1	600.2	0.8	86.9	2.1	31.8	138.6	136.2	3.2
1951	0.7	125.0	0	0.5	48.2	232.7	5.0	93.9	2.1	22.4	99.8	129.8	2.9
1952	0.7	124.1	0	0.8	29.7	491.1	4.2	91.7	2.5	58.3	110.0	114.7	0.9
1953	0.2	85.9	0	0.5	42.8	340.5	12.7	82.4	2.2	34.2	82.0	128.3	0.6
1954	0.8	73.2	0	0.4	80.0	579.8	20.2	82.1	2.1	30.9	66.7	141.5	0.7
1955	0.8	81.3	0	0.3	58.7	330.0	17.2	75.8	2.3	16.3	67.2	142.4	0.8
1956	2.9	97.8	0	0.7	25.4	558.4	10.8	73.4	2.4	8.7	63.7	127.7	0.7
1957	1.7	92.2	0	0.2	17.5	244.4	8.4	64.2	2.2	6.4	58.6	108.0	1.2
1958	0.1	68.4	0	0.2	15.7	526.9	8.7	71.0	2.9	15.6	54.2	109.6	2.3
1959	0.0	118.7	0	0.1	37.7	153.7	14.3	59.6	1.8	5.6	43.0	100.9	1.7
1960	0.1	118.7	0	0.2	14.4	462.2	27.0	52.8	2.2	1.1	46.6	107.0	1.4
1961	0.0	105.6	0	0.1	8.1	371.9	58.3	48.6	3.2	0.5	41.9	120.3	1.3
1962	0.1	102.2	0	0.2	22.1	318.7	41.3	43.8	1.8	0.3	54.6	146.8	0.9
1963	0.1	149.0	0	0.2	17.6	607.1	33.1	41.1	1.3	0.2	68.6	137.5	1.2

Note: Meningococcal infections - prior to 1952 data were for meningococcal meningitis.

TABLE 3 - DEATHS DUE TO CERTAIN COMMUNICABLE DISEASES, AND RATES  
MICHIGAN, 1900 - 1963

(Rates per 100,000 Population)

Year	Diphtheria		Scarlet Fever		Smallpox		Typhoid Fever		Whooping Cough		Measles		Tuberculosis of the Respiratory System		Tuberculosis (all forms)		Poliomyelitis		Syphilis*		Gonorrhea	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1900	529	21.9	272	11.2	9	0.4	869	35.9	208	8.6	342	14.1	2,018	83.4	2,500	103.3						
1901	502	20.4	312	12.7	27	1.1	645	26.2	163	6.6	79	3.2	2,152	87.5	2,548	103.6			88	3.6		
1902	504	20.2	277	11.1	42	1.7	608	24.3	289	11.6	238	9.5	2,088	83.6	2,462	98.5			114	4.6		
1903	686	27.0	200	7.9	29	1.1	606	23.9	383	15.1	176	6.9	2,155	84.9	2,562	101.0			130	5.2		
1904	515	20.0	210	8.1	26	1.0	641	24.9	148	5.7	194	7.5	2,306	89.5	2,761	107.2			101	4.0		
1905	478	18.3	123	4.7	74	2.8	636	24.3	131	5.0	123	4.7	2,288	87.5	2,732	104.4			89	3.5		
1906	472	17.8	227	8.6	3	0.1	721	27.2	469	17.7	251	9.5	2,303	86.8	2,737	103.1			89	3.4		
1907	421	15.6	159	5.9	8	0.3	594	22.1	223	8.3	256	9.5	2,338	86.8	2,728	101.3			94	3.6		
1908	343	12.6	194	7.1	11	0.4	687	25.1	305	11.2	121	4.4	2,249	82.3	2,706	99.0			118	4.5		
1909	395	14.3	275	9.9	4	0.1	653	23.6	217	7.8	270	9.7	2,237	80.7	2,629	94.9			127	4.8		
1910	495	17.6	297	10.6	121	4.3	654	23.3	318	11.3	251	8.9	2,273	80.9	2,756	98.1	52	1.9	65	2.3		
1911	473	16.3	208	7.2	7	0.2	551	19.0	254	8.8	200	6.9	2,284	78.9	2,766	95.5	55	1.9	104	3.6		
1912	465	15.6	186	6.2	3	0.1	534	17.9	252	8.5	118	4.0	2,289	76.8	2,744	92.0	48	1.7	90	3.1		
1913	676	22.0	283	9.2	5	0.2	538	17.5	292	9.5	258	8.4	2,243	73.1	2,703	88.1	43	1.5	136	4.6		
1914	507	16.1	177	5.6	2	0.1	400	12.7	304	9.6	180	5.7	2,325	73.7	2,799	88.8	41	1.4	160	5.3		
1915	354	10.9	107	3.3	5	0.2	353	10.9	236	7.3	101	3.1	2,527	78.0	2,986	92.2	36	1.2	163	5.3		
1916	507	15.2	177	5.3	2	0.1	424	12.8	228	6.9	363	10.9	2,573	77.4	3,070	92.3	141	4.6	206	6.7		
1917	851	24.9	340	10.0	9	0.3	386	11.3	360	10.6	259	7.6	2,779	81.5	3,310	97.0	44	1.4	224	7.1		
1918	686	19.6	181	5.2	18	0.5	337	9.6	496	14.2	270	7.7	3,059	87.5	3,612	103.3	58	1.8	290	9.1		
1919	764	21.3	179	5.0	10	0.3	272	7.6	172	4.8	183	5.1	2,620	73.1	3,127	87.3	80	2.2	299	8.2		
1920	888	24.2	305	8.3	14	0.4	297	8.1	511	13.9	436	11.9	2,645	72.1	3,149	85.8	30	0.8	314	8.4	14	0.4
1921	954	25.2	334	8.8	12	0.3	285	7.5	316	8.3	58	1.5	2,285	60.4	2,736	72.3	100	2.6	226	5.9	6	0.2
1922	620	15.9	217	5.6	20	0.5	192	4.9	232	5.9	232	5.9	2,232	57.2	2,654	68.0	21	0.5	186	4.7	5	0.1
1923	675	16.8	304	7.6	13	0.3	202	5.0	323	8.0	258	6.4	2,410	59.9	2,837	70.6	18	0.5	262	6.8	5	0.1
1924	470	11.4	265	6.4	226	5.5	149	3.6	169	4.1	221	5.3	2,474	59.8	2,952	71.3	116	3.0	271	7.0	13	0.3
1925	358	8.4	208	4.9	22	0.5	157	3.7	260	6.1	69	1.6	2,410	56.6	2,830	66.5	31	0.7	282	6.6	27	0.6
1926	677	15.5	235	5.4	4	0.1	119	2.7	355	8.1	577	13.2	2,601	59.5	3,041	69.5	34	0.8	327	7.5	12	0.3
1927	516	11.5	168	3.7	-	0	94	2.1	201	4.5	67	1.5	2,514	56.0	2,952	65.7	69	1.5	305	6.8	16	0.4
1928	384	8.3	178	3.9	2	0.0	83	1.8	219	4.8	303	6.6	2,647	57.4	3,108	67.5	27	0.6	384	8.4	19	0.4
1929	498	10.5	145	3.1	9	0.2	81	1.7	255	5.4	146	3.1	2,685	56.8	3,140	66.5	50	1.1	397	8.4	19	0.4
1930	299	6.2	130	2.7	9	0.2	87	1.8	176	3.6	231	4.8	2,443	50.5	2,912	60.1	39	0.8	395	8.2	12	0.2
1931	172	3.5	122	2.5	4	0.1	73	1.5	190	3.9	28	0.6	2,263	46.3	2,660	54.5	108	2.2	361	7.4	3	0.1
1932	106	2.2	112	2.3	1	0.0	56	1.1	199	4.0	183	3.7	2,101	42.7	2,463	50.0	23	0.5	377	7.7	2	0.0
1933	112	2.3	157	3.2	-	0	50	1.0	153	3.1	111	2.2	1,996	40.2	2,348	47.3	5	0.1	327	6.6	7	0.1
1934	38	0.8	171	3.4	-	0	65	1.3	141	2.8	36	0.7	1,909	38.1	2,199	43.9	25	0.5	402	8.0	10	0.2
1935	58	1.1	98	1.9	-	0	34	0.7	132	2.6	184	3.6	1,741	34.5	2,044	40.5	32	0.6	393	7.8	3	0.1
1936	52	1.0	114	2.2	-	0	37	0.7	107	2.1	12	0.2	1,816	35.7	2,100	41.3	21	0.4	394	7.7	6	0.1
1937	72	1.4	148	2.9	1	0.0	29	0.6	132	2.6	11	0.2	1,860	36.2	2,119	41.3	51	1.0	401	7.8	8	0.2
1938	44	0.9	87	1.7	-	0	23	0.4	116	2.2	100	1.9	1,633	31.6	1,866	36.1	10	0.2	401	7.8	8	0.2
1939	25	0.5	69	1.3	-	0	25	0.5	76	1.5	29	0.6	1,651	31.7	1,881	36.1	40	0.8	389	7.5	4	0.1
1940	20	0.4	41	0.8	1	0.0	11	0.2	59	1.1	19	0.4	1,547	29.4	1,752	33.3	72	1.4	591	11.2	3	0.0
1941	18	0.3	32	0.6	1	0.0	14	0.3	91	1.7	65	1.2	1,532	28.2	1,723	31.7	18	0.3	537	9.9	1	0.0
1942	24	0.4	23	0.4	-	0	5	0.1	72	1.3	8	0.1	1,630	29.4	1,827	33.0	10	0.2	559	10.1	7	0.1
1943	21	0.4	11	0.2	-	0	9	0.2	101	1.9	89	1.7	1,588	29.5	1,802	33.5	27	0.5	579	10.8	3	0.0
1944	32	0.6	7	0.1	1	0.0	7	0.1	33	0.6	49	0.9	1,544	28.7	1,748	32.5	45	0.8	543	10.1	2	0.0
1945	46	0.8	9	0.2	-	0	3	0.1	36	0.7	10	0.2	1,591	29.3	1,758	32.3	20	0.4	527	9.7	2	0.0
1946	27	0.5	3	0.1	-	0	6	0.1	44	0.8	47	0.8	1,645	28.8	1,843	32.3	89	1.6	547	9.6	-	0
1947	23	0.4	6	0.1	-	0	5	0.1	63	1.0	5	0.1	1,483	24.4	1,643	27.1	29	0.5	502	8.3	3	0.0
1948	8	0.1	1	0.0	-	0	4	0.1	9	0.1	43	0.7	1,395	22.5	1,561	25.2	54	0.9	512	8.3	-	0
1949	11	0.2	4	0.1	-	0	1	0.0	22	0.3	33	0.5	1,254	19.7	1,400	22.0	216	3.4	455	7.2	-	0
1950	2	0.0	1	0.0	-	0	5	0.1	28	0.4	28	0.4	1,134	17.8	1,270	19.9	128	2.0	325	5.1	1	0.0
1951	6	0.1	-	0	-	0	1	0.0	21	0.3	11	0.2	1,049	16.0	1,154	17.6	67	1.0	299	4.6	1	0.0
1952	2	0.0	-	0	-	0	-	0	8	0.1	17	0.3	689	10.3	775	11.6	213	3.2	174	2.6	2	0.0
1953	2	0.0	1	0.0	-	0	-	0	11	0.2	16	0.2	536	7.8	607	8.9	108	1.6	182	2.7	1	0.0
1954	3	0.0	3	0.0	-	0	-	0	17	0.2	17	0.2	471	6.7	530	7.5	89	1.3	139	2.0	2	0.0
1955	1	0.0	1	0.0	-	0	1	0.0	8	0.1	10	0.1	435	6.0	477	6.6	32	0.4	115	1.6	1	0.0
1956	6	0.1	3	0.0	-	0	-	0	6	0.1	26	0.3	426	5.7	466	6.2	22	0.3	114	1.5	4	0.1
1957	1	0.0	-	0	-	0	-	0	6	0.1	23	0.3	403	5.2	442	5.7	15	0.2	105	1.3	4	0.1
1958	-	0	-	0	-	0	-	0	1	0.0	18	0.2	357	4.5	395	5.0	37	0.5	84	1.1	8	0.1
1959	1	0.0	2	0.0	-	0	1	0.0	5	0.1	11	0.1	335	4.2	370	4.6	17	0.2	84	1.1	4	0.1
1960	2	0.0	1	0.0	-	0	-	0	1	0.0	17	0.2	364	4.7	390	5.0	4	0.1	79	1.0	7	0.1
1961	1	0.0	1	0.0	-	0	-	0	2	0.0	13	0.2	307	3.9	332	4.2	-	0	71	0.9	7	0.1
1962	2	0.0	1	0.0	-	0	-	0	2	0.0	8	0.1	307	3.9	331	4.2	2	0.0	94	1.2	3	0.0
1963	-	0	-	0	-	0	-	0	-	0	27	0.3	276	3.4	299	3.7	1	0.0	72	0.9	1	0.0

\* From 1901 through 1920, syphilis includes all other venereal diseases.

TABLE 4 - DEATHS DUE TO SPECIFIED CAUSES, AND RATES  
MICHIGAN, 1900 - 1963

(Rates per 100,000 Population)

Year	Heart Disease		Cancer (all forms)		Vascular Lesions Affecting Central Nervous System		Accidents (all forms)		Motor Vehicle Accidents		Diabetes		Pneumonia		Immaturity		General Arteriosclerosis	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1900	2,836	117.1	1,460	60.3	2,136	88.2	1,740	71.9			224	9.3	2,388	98.6	620	25.6		
1901	3,040	123.6	1,484	60.3	2,147	87.3	1,901	77.3			264	10.7	2,901	117.9	524	21.3		
1902	3,302	132.1	1,483	59.3	2,097	83.9	1,796	71.9			289	11.6	2,637	105.5	608	24.3		
1903	3,702	145.9	1,694	66.8	2,321	91.5	2,017	79.5			265	10.4	2,607	102.7	542	21.4		
1904	3,981	154.5	1,728	67.1	2,431	94.3	2,035	79.0			298	11.6	2,646	102.7	632	24.5		
1905	3,715	142.0	1,693	64.7	2,405	91.9	2,034	77.8			267	10.2	2,417	92.4	751	28.7		
1906	3,933	148.2	1,736	65.4	2,554	96.2	2,126	80.1			311	11.7	2,621	98.7	830	31.3		
1907	4,269	158.5	1,747	64.9	2,690	99.9	2,209	82.0			352	13.1	3,018	112.0	855	31.7		
1908	4,202	153.8	1,921	70.3	2,630	96.3	2,036	74.5			359	13.1	2,313	84.7	975	35.7		
1909	4,354	157.1	1,948	70.3	2,739	98.8	1,903	68.7			374	13.5	2,265	81.7	1,152	41.6		
1910	4,581	163.0	2,105	74.9	3,091	110.0	2,158	76.8	49	1.7	398	14.2	2,785	99.1	2,050	72.9		
1911	4,639	160.2	2,142	74.0	2,916	100.7	2,121	73.2	44	1.5	373	12.9	2,763	95.4	2,223	76.8		
1912	5,324	178.5	2,291	76.8	2,707	90.8	2,005	67.2	75	2.5	448	15.0	2,796	93.8	2,340	78.5		
1913	4,908	160.0	2,388	77.8	2,834	92.4	2,333	76.1	132	4.3	483	15.7	3,082	100.5	2,480	80.8		
1914	5,124	162.5	2,414	76.6	2,993	94.9	2,108	66.8	120	3.8	503	16.0	2,909	92.2	2,391	75.8		
1915	5,538	171.0	2,567	79.2	3,384	104.5	2,219	68.5	190	5.9	498	15.4	3,229	99.7	2,207	68.1		
1916	5,819	175.0	2,710	81.5	3,559	107.0	2,853	85.8	257	7.7	500	15.0	3,698	111.2	2,498	75.1		
1917	6,103	178.9	2,765	81.1	3,703	108.6	2,925	85.8	335	9.8	569	16.7	4,455	130.6	2,369	69.5		
1918	6,091	174.2	2,931	83.8	3,493	99.9	2,599	74.3	279	8.0	591	16.9	7,238	207.0	2,362	67.5		
1919	5,651	157.7	2,990	83.5	3,483	97.2	2,612	72.9	328	9.2	559	15.6	4,081	113.9	2,183	60.9		
1920	6,732	183.5	3,158	86.1	3,876	105.7	2,646	72.1	397	10.8	577	15.7	5,794	157.9	2,512	68.5		
1921	6,176	163.1	3,373	89.1	3,931	103.8	2,476	65.4	403	10.6	586	15.5	2,849	75.3	2,481	65.5		
1922	6,897	176.7	3,481	89.2	4,041	103.5	2,475	63.4	529	13.6	650	16.7	3,728	95.5	1,793	45.9		
1923	7,266	180.7	3,545	88.2	4,420	109.9	2,826	70.3	677	16.8	635	15.8	4,719	117.4	1,911	47.5		
1924	6,985	168.8	3,824	92.4	4,241	102.5	3,090	74.7	1,001	24.2	661	16.0	3,332	80.5	1,970	47.6		
1925	7,540	177.2	3,858	90.7	4,623	108.6	3,278	77.0	1,103	25.9	746	17.5	3,294	77.4	1,987	46.7		
1926	8,281	189.4	4,087	93.5	4,663	106.6	3,557	81.3	1,221	27.9	743	17.0	4,440	101.5	1,986	45.4		
1927	8,780	195.5	4,264	95.0	4,378	97.5	3,634	80.9	1,389	30.9	819	18.2	3,543	78.9	1,911	42.6		
1928	9,786	212.4	4,381	95.1	4,718	102.4	3,704	80.4	1,429	31.0	905	19.6	4,518	98.1	1,846	40.1		
1929	10,185	215.6	4,571	96.7	4,694	99.3	3,913	82.8	1,552	32.8	935	19.8	4,216	89.2	1,853	39.2		
1930	9,947	205.4	4,572	94.4	4,533	93.6	3,805	78.6	1,572	32.5	880	18.2	3,321	68.6	1,805	37.3	1,047	21.6
1931	10,206	209.0	4,763	97.5	4,388	89.8	3,630	74.3	1,516	31.0	950	19.5	2,883	59.0	1,473	30.2	1,005	20.6
1932	11,162	226.6	4,935	100.2	4,518	91.7	3,179	64.5	1,229	25.0	1,121	22.8	3,238	65.7	1,372	27.9	948	19.2
1933	11,509	231.7	5,055	101.8	4,318	86.9	3,304	66.5	1,278	25.7	1,103	22.2	2,756	55.5	1,364	27.5	966	19.5
1934	11,824	236.1	5,370	107.2	4,485	89.6	3,774	75.4	1,511	30.2	1,100	22.0	3,466	69.2	1,419	28.3	914	18.3
1935	12,456	246.7	5,399	106.9	4,420	87.5	3,771	74.7	1,676	33.2	1,228	24.3	3,801	75.3	1,389	27.5	897	17.8
1936	13,374	262.7	5,752	113.0	4,705	92.4	5,246	103.1	1,924	37.8	1,266	24.9	4,096	80.5	1,395	27.4	997	19.6
1937	13,233	257.8	5,732	111.7	4,378	85.3	4,580	89.2	2,187	42.6	1,255	24.5	4,098	79.8	1,415	27.6	1,168	22.8
1938	13,887	268.4	6,059	117.1	4,543	87.8	3,608	69.7	1,490	28.8	1,283	24.8	2,869	55.5	1,484	28.7	869	16.8
1939	14,898	285.7	6,296	120.7	4,415	84.7	3,761	72.1	1,553	29.8	1,360	26.1	2,803	53.8	1,396	26.8	918	17.6
1940	15,480	294.5	6,513	123.9	4,690	89.2	3,961	75.4	1,743	33.2	1,408	26.8	2,478	47.1	1,298	24.7	941	17.9
1941	15,761	289.8	6,551	120.5	4,698	86.4	4,450	81.8	2,156	39.6	1,382	25.4	2,235	41.1	1,353	24.9	906	16.7
1942	16,016	289.2	6,646	120.0	4,841	87.4	3,685	66.5	1,448	24.7	1,448	26.1	2,349	42.4	1,575	28.4	1,015	18.3
1943	17,816	331.3	7,127	132.5	5,311	98.8	3,480	64.7	1,025	19.1	1,535	28.5	2,931	54.5	1,488	27.7	1,092	20.3
1944	17,004	316.2	7,277	135.3	4,954	92.1	3,350	62.3	1,103	20.5	1,554	28.9	2,369	44.1	1,412	26.3	980	18.2
1945	17,421	320.5	7,486	137.7	5,295	97.4	3,432	63.1	1,199	22.1	1,561	28.7	1,932	35.5	1,339	24.6	970	17.8
1946	17,691	309.9	7,845	137.4	5,224	91.5	3,776	66.1	1,506	26.4	1,530	26.8	1,891	33.1	1,735	30.4	933	16.3
1947	18,412	303.4	8,188	134.9	5,426	89.4	3,848	63.4	1,499	24.7	1,618	26.7	2,089	34.4	1,953	32.2	1,031	17.0
1948	18,726	302.3	8,336	134.6	5,272	85.1	4,017	64.8	1,545	24.9	1,771	28.6	1,853	29.9	1,820	29.4	1,085	17.5
1949	19,137	301.3	8,697	136.9	5,438	85.6	3,838	60.4	1,493	23.5	1,884	29.7	1,885	29.7	1,795	28.3	1,135	17.9
1950	20,521	322.1	8,685	136.3	6,376	100.1	3,783	59.4	1,680	26.4	1,438	22.6	1,358	21.3	1,096	17.2	1,296	20.3
1951	21,118	322.6	9,187	140.4	6,579	100.5	3,916	59.8	1,806	27.6	1,374	21.0	1,619	24.7	1,232	18.8	1,312	20.0
1952	21,247	316.8	9,256	138.0	6,521	97.2	3,901	58.2	1,815	27.1	1,339	20.0	1,571	23.4	1,256	18.7	1,294	19.3
1953	22,425	327.3	9,904	144.5	7,045	102.8	4,375	63.8	2,051	29.9	1,419	20.7	1,538	22.4	1,114	16.3	1,270	18.5
1954	22,362	318.4	10,105	143.9	6,964	99.1	3,948	56.2	1,916	27.3	1,469	20.9	1,380	19.6	1,298	18.5	1,170	16.7
1955	23,440	323.9	10,297	142.3	7,362	101.7	4,213	58.2	2,129	29.4	1,415	19.6	1,538	21.3	1,272	17.6	1,237	17.1
1956	24,661	328.1	10,489	139.6	7,114	94.7	3,925	52.2	1,826	24.3	1,443	19.2	1,723	22.9	1,244	16.6	1,251	16.6
1957	25,369	325.1	10,810	138.5	7,632	97.8	3,643	46.7	1,860	21.5	1,510	19.4	2,045	26.2	1,322	16.9	1,248	16.0
1958	25,215	320.6	10,946	139.2	7,547	95.9	3,306	42.0	1,466	18.6	1,595	20.3	2,076	26.4	1,208	15.4	1,300	16.5
1959	25,323	318.1	11,113	139.6	7,700	96.7	3,666	46.1	1,587	19.9	1,715	21.5	1,810	22.7	1,201	15.1	1,403	17.6
1960	25,728	328.9	11,331	144.8	7,682	98.2	3,688	47.1	1,710	21.9	1,784	22.8	2,002	25.6	1,148	14.7	1,352	17.3
1961	25,519	322.9	11,476	145.2	7,745	98.0	3,692	46.7	1,778	21.0	1,778	22.5	1,692	21.4	1,003	12.7	1,448	18.3
1962	27,226	342.9	11,752	148.0	7,783	98.0	3,758	47.3	1,668	21.0	1,908	24.0	1,824	23.0	907	11.4	1,477	18.6
1963	27,483	342.3	12,078	150.4	8,168	101.7	4,033	50.2	2,005	25.0	2,049	25.5	1,995	24.8	816	10.2	1,652	20.6

Note: Heart disease includes all forms. Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921. Motor vehicle accidents do not include automobile collision with heavier vehicles from 1910 through 1922. Motor cycle accidents are included beginning with 1923. Deaths related to immaturity include congenital debility from 1910 through 1921.

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE  
MICHIGAN, 1963

(Place of residence according to rural and urban incorporated areas having a 1960 population of 2,500 or more.)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Hepatitis, infectious and serum*	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Conorthea	All other diseases**
STATE	153,388	5	11,964	14	1,410	2,661	1,475	104	18	6	3,298	5,512	11,043	115,878
ALCONA	8	-	-	-	-	2	3	-	-	-	1	2	-	-
ALGER	100	-	-	-	-	-	6	-	-	-	9	2	6	77
Munising	58	-	-	-	-	-	3	-	-	-	4	1	6	44
Balance of County	42	-	-	-	-	-	3	-	-	-	5	1	-	33
ALLEGAN	396	-	83	-	3	42	12	-	1	-	6	8	21	220
Allegan	55	-	1	-	-	6	3	-	-	-	-	2	2	41
Holland Pt.	1	-	-	-	-	1	-	-	-	-	-	-	-	-
Otsego	66	-	2	-	-	11	2	-	-	-	-	-	6	45
Plainwell	89	-	5	-	-	3	2	-	-	-	1	2	4	72
Balance of County	185	-	75	-	3	21	5	-	1	-	5	4	9	62
ALPENA	78	-	15	-	-	-	-	-	-	-	4	7	14	38
Alpena	73	-	14	-	-	-	-	-	-	-	2	7	13	37
Balance of County	5	-	1	-	-	-	-	-	-	-	2	-	1	1
ANTRIM	19	-	-	-	-	1	7	-	-	-	-	4	7	-
AREMAC	50	-	-	-	-	2	-	-	-	-	3	-	-	45
BARAGA	13	-	-	-	-	-	-	-	-	-	12	1	-	-
BARRY	1,512	-	462	-	-	11	5	-	-	-	4	3	14	1,013
Hastings	297	-	51	-	-	-	4	-	-	-	1	3	11	227
Balance of County	1,215	-	411	-	-	11	1	-	-	-	3	-	3	786
BAY	3,387	-	48	-	11	103	36	1	-	-	46	33	56	3,053
Bay City	1,876	-	29	-	8	18	22	1	-	-	31	25	41	1,701
Essexville	428	-	3	-	-	4	-	-	-	-	5	1	10	405
Balance of County	1,083	-	16	-	3	81	14	-	-	-	10	7	5	947
BENZIE	21	-	1	-	-	1	7	-	-	-	7	2	3	-
BERRIEN	1,883	-	86	-	35	16	4	5	1	-	44	85	183	1,424
Benton Harbor	195	-	-	-	-	-	3	1	1	-	20	42	128	-
Buchanan	7	-	-	-	-	-	-	-	-	-	-	4	3	-
Niles	44	-	1	-	-	-	-	1	-	-	5	13	14	10
St. Joseph	8	-	-	-	-	-	-	-	-	-	1	1	6	-
Balance of County	1,629	-	85	-	35	16	1	3	-	-	18	25	32	1,414
BRANCH	634	-	22	-	-	27	14	1	-	-	4	7	8	551
Coldwater	240	-	3	-	-	12	5	-	-	-	3	5	6	206
Balance of County	394	-	19	-	-	15	9	1	-	-	1	2	2	345
CALHOUN	2,843	-	11	-	-	75	12	2	-	-	32	61	211	2,439
Albion	305	-	3	-	-	2	-	1	-	-	4	7	25	263
Battle Creek	818	-	1	-	-	17	5	1	-	-	19	49	179	547
Marshall	197	-	-	-	-	-	1	-	-	-	4	2	4	186
Springfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	1,523	-	7	-	-	56	6	-	-	-	5	3	3	1,443
CASS	242	-	8	-	-	5	3	1	-	-	11	12	6	196
Dowagiac	11	-	-	-	-	-	1	-	-	-	5	4	2	-
Balance of County	231	-	8	-	-	5	3	1	-	-	6	8	4	196
CHARLEVOIX	26	-	5	-	1	1	1	-	-	-	3	5	8	2
Boyne City	6	-	2	-	-	-	-	-	-	-	-	3	1	-
Charlevoix	9	-	-	-	-	1	-	-	-	-	2	1	5	-
Balance of County	11	-	3	-	1	-	1	-	-	-	1	1	2	2
CHEBOYGAN	23	-	-	-	-	-	2	2	-	-	4	7	8	-
Cheboygan	14	-	-	-	-	-	1	-	-	-	1	5	7	-
Balance of County	9	-	-	-	-	-	1	2	-	-	3	2	1	-
CHIPPEWA	92	-	2	-	1	4	10	-	-	-	10	18	26	21
Sault Ste. Marie	45	-	1	-	-	-	5	-	-	-	5	12	16	6
Balance of County	47	-	1	-	1	4	5	-	-	-	5	6	10	15
CLARE	51	-	2	-	-	6	4	-	-	-	4	9	4	22
CLINTON	277	-	21	-	-	-	2	-	1	-	9	4	10	230
St. Johns	8	-	-	-	-	-	-	-	-	-	3	1	4	-
Balance of County	269	-	21	-	-	-	2	-	1	-	6	3	6	230
CRAWFORD	14	-	-	-	-	2	-	-	-	-	2	4	6	-
DELTA	415	-	21	-	3	-	6	3	-	-	10	4	9	359
Escanaba	399	-	21	-	3	-	3	3	-	-	2	4	6	357
Gladstone	4	-	-	-	-	-	-	-	-	-	3	-	1	-
Balance of County	12	-	-	-	-	-	3	-	-	-	5	-	2	2
DICKINSON	541	-	5	-	3	-	2	-	-	-	4	-	3	524
Iron Mountain	162	-	2	-	-	-	1	-	-	-	1	-	3	155
Kingsford	167	-	3	-	-	-	-	-	-	-	-	-	-	164
Norway	52	-	-	-	-	-	-	-	-	-	3	-	-	49
Balance of County	160	-	-	-	3	-	1	-	-	-	-	-	-	156

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Hepatitis, infectious and serum*	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases**
EATON	341	-	97	-	6	15	16	-	-	-	4	6	23	174
Charlotte	278	-	90	-	-	1	5	-	-	-	2	2	8	170
Eaton Rapids	14	-	-	-	-	1	-	-	-	-	2	1	10	-
Grand Ledge	2	-	-	-	-	-	-	-	-	-	-	1	1	-
Balance of County	47	-	7	-	6	13	11	-	-	-	-	2	4	4
EMMET	29	-	7	-	-	-	5	-	-	-	5	8	2	2
Petoskey	23	-	6	-	-	-	3	-	-	-	2	8	2	2
Balance of County	6	-	1	-	-	-	2	-	-	-	3	-	-	-
GENESEE	4,469	-	197	-	67	100	81	2	1	1	93	402	860	2,665
Davison	6	-	-	-	-	-	-	-	-	-	3	-	3	-
Fenton	15	-	-	-	-	-	-	-	-	-	2	-	4	-
Flint	1,985	-	47	-	28	37	42	2	1	1	71	382	820	554
Flushing	4	-	-	-	-	-	-	-	-	-	-	1	3	-
Mount Morris	11	-	-	-	-	-	-	-	-	-	3	2	6	-
Swartz Creek	4	-	-	-	-	-	-	-	-	-	1	2	1	-
Balance of County	2,444	-	150	-	39	63	39	-	-	-	13	11	18	2,111
GLADWIN	69	-	-	-	1	-	17	-	-	-	-	2	-	49
GOGEBIC	22	-	-	-	-	-	1	-	-	-	11	8	-	2
Bessemer	3	-	-	-	-	-	-	-	-	-	1	1	-	1
Ironwood	12	-	-	-	-	-	-	-	-	-	6	6	-	-
Wakefield	2	-	-	-	-	-	-	-	-	-	1	1	-	-
Balance of County	5	-	-	-	-	-	1	-	-	-	3	-	-	1
GRAND TRAVERSE	156	-	31	-	4	23	3	-	-	-	11	13	10	61
Traverse City	26	-	1	-	-	-	2	-	-	-	5	11	7	-
Balance of County	130	-	30	-	4	23	1	-	-	-	6	2	3	61
GRATIOT	148	-	-	-	-	1	7	-	1	-	3	4	9	123
Alma	12	-	-	-	-	-	1	-	-	-	1	3	5	2
Ithaca	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Louis	2	-	-	-	-	-	1	-	1	-	-	-	-	-
Balance of County	134	-	-	-	-	1	5	-	-	-	2	1	4	121
HILLSDALE	168	-	14	-	-	23	8	2	-	-	10	1	9	101
Hillsdale	15	-	1	-	-	1	1	-	-	-	-	-	5	7
Balance of County	153	-	13	-	-	22	7	2	-	-	10	1	4	94
HOUGHTON	69	-	-	-	-	-	4	-	-	-	50	13	2	-
Hancock	14	-	-	-	-	-	7	-	-	-	7	7	-	-
Houghton	10	-	-	-	-	-	1	-	-	-	5	2	2	-
Laurium	5	-	-	-	-	-	-	-	-	-	5	-	-	-
Balance of County	40	-	-	-	-	-	3	-	-	-	33	4	-	-
HURON	20	-	-	-	-	1	9	-	-	-	4	4	2	-
Bad Axe	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	20	-	-	-	-	1	9	-	-	-	4	4	2	-
INGHAM	12,803	-	5,374	-	11	51	43	2	-	-	36	63	381	6,842
East Lansing	136	-	33	-	-	-	1	-	-	-	3	6	22	71
Lansing	10,402	-	4,475	-	3	41	24	1	-	-	26	46	318	5,468
Mason	191	-	45	-	-	1	2	-	-	-	-	1	6	136
Balance of County	2,074	-	821	-	8	9	16	1	-	-	7	10	35	1,167
IONIA	28	-	-	-	-	-	3	1	-	-	10	4	7	3
Belding	2	-	-	-	-	-	-	1	-	-	4	-	1	-
Ionia	10	-	-	-	-	-	-	-	-	-	4	3	3	-
Portland	2	-	-	-	-	-	-	-	-	-	1	-	-	1
Balance of County	14	-	-	-	-	-	3	-	-	-	5	1	3	2
IOSCO	100	-	35	-	-	2	1	2	-	-	1	3	5	51
IRON	90	-	-	-	3	-	4	-	-	-	5	3	-	75
Iron River	51	-	-	-	3	-	2	-	-	-	2	-	-	44
Balance of County	39	-	-	-	-	-	2	-	-	-	3	3	-	31
ISABELLA	467	-	1	-	1	24	8	2	-	1	9	10	5	406
Mount Pleasant	349	-	1	-	1	14	8	1	-	-	5	5	4	310
Balance of County	118	-	-	-	-	10	-	1	-	1	4	5	1	96
JACKSON	980	-	17	-	-	9	11	-	-	-	50	56	107	730
Jackson	910	-	17	-	-	9	8	-	-	-	26	30	91	729
Balance of County	70	-	-	-	-	-	3	-	-	-	24	26	16	1
KALAMAZOO	5,135	-	40	-	8	40	24	3	-	-	32	61	506	4,421
Kalamazoo	2,293	-	11	-	3	19	17	2	-	-	31	55	479	1,676
Balance of County	2,842	-	29	-	5	21	7	1	-	-	1	6	27	2,745
KALKASKA	19	-	-	-	-	3	3	-	-	-	1	2	-	10
KENT	3,430	-	375	-	28	239	47	-	8	-	100	103	529	2,001
East Grand Rapids	106	-	24	-	1	4	-	-	-	-	-	-	-	77
Grand Rapids	2,070	-	175	-	9	117	23	-	-	-	88	87	483	1,080
Grandville	47	-	10	-	2	14	-	-	-	-	1	1	3	16
Lowell	7	-	-	-	-	6	-	-	-	-	-	-	-	1
Sparta	28	-	2	-	-	1	3	-	-	-	-	1	3	18
Wyoming	160	-	47	-	6	26	10	-	-	-	-	1	4	66
Balance of County	1,012	-	117	-	10	71	11	-	-	-	11	13	36	743

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Hepatitis, infectious and serum*	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Conorrhoea	All other diseases**
KEWEENAW	5	-	-	-	-	-	-	-	-	-	3	1	1	-
LAKE	19	-	-	-	-	3	-	-	-	-	-	12	2	2
LAPEER	224	-	4	-	-	9	6	-	-	-	6	13	10	176
Lapeer	198	-	4	-	-	8	4	-	-	-	2	3	2	175
Balance of County	26	-	-	-	-	1	2	-	-	-	4	10	8	1
LEELANAU	27	-	-	-	-	12	2	-	-	-	1	7	2	3
LENAWEE	470	-	11	-	24	13	28	-	-	-	54	15	5	320
Adrian	274	-	7	-	1	1	7	-	-	-	17	3	3	235
Blissfield	9	-	3	-	-	1	2	-	-	-	1	1	-	1
Hudson	5	-	-	-	-	-	-	-	-	-	3	1	-	1
Tecumseh	18	-	-	-	-	-	1	-	-	-	4	7	-	6
Balance of County	164	-	1	-	23	11	18	-	-	-	29	3	2	77
LIVINGSTON	242	-	-	-	-	19	15	-	-	-	5	5	10	188
Howell	154	-	-	-	-	6	1	-	-	-	2	2	1	142
Balance of County	88	-	-	-	-	13	14	-	-	-	3	3	9	46
LUCE	3	-	-	-	-	-	-	-	-	-	2	1	-	-
Newberry	1	-	-	-	-	-	-	-	-	-	-	1	-	-
Balance of County	2	-	-	-	-	-	-	-	-	-	2	-	-	-
MACKINAC	30	-	-	-	-	2	3	-	-	-	-	3	1	21
St. Ignace	23	-	-	-	-	-	2	-	-	-	-	-	-	21
Balance of County	7	-	-	-	-	2	1	-	-	-	-	3	1	-
MACOMB	9,171	-	511	-	12	86	45	7	1	1	155	109	89	8,155
Center Line	124	-	-	-	-	2	1	1	-	-	4	1	6	109
East Detroit	284	-	44	-	1	3	2	1	-	-	15	12	6	200
Fraser	215	-	19	-	-	1	-	1	-	-	1	1	1	191
Mount Clemens	543	-	9	-	1	5	-	-	-	-	20	23	22	463
New Baltimore Pt.	70	-	5	-	-	-	-	-	-	-	-	-	-	65
Richmond	45	-	-	-	-	-	-	-	-	-	7	1	-	37
Romeo	67	-	1	-	-	-	-	-	-	-	4	3	1	58
Roseville	691	-	31	-	1	16	5	2	-	-	16	10	8	602
St. Clair Shores	3,187	-	107	-	6	13	7	-	1	-	27	15	11	3,000
Warren	2,133	-	168	-	2	26	19	1	-	-	44	33	19	1,821
Balance of County	1,812	-	127	-	1	20	11	1	-	1	17	10	15	1,609
MANISTEE	151	-	2	-	-	13	2	-	-	-	8	4	1	121
Manistee	125	-	2	-	-	6	2	-	-	-	2	1	-	112
Balance of County	26	-	-	-	-	7	-	-	-	-	6	3	1	9
MARQUETTE	515	-	7	-	1	-	4	-	-	-	26	16	10	451
Ishpeming	215	-	-	-	1	-	1	-	-	-	3	2	1	207
Marquette	271	-	1	-	-	-	1	-	-	-	7	12	8	242
Negaunee	10	-	-	-	-	-	-	-	-	-	7	2	1	-
Balance of County	19	-	6	-	-	-	2	-	-	-	9	-	-	2
MASON	414	-	1	3	-	3	5	1	-	2	5	11	6	377
Ludington	258	-	-	-	-	1	4	1	-	-	3	8	5	236
Balance of County	156	-	1	3	-	2	1	-	-	2	2	3	1	141
MECOSTA	295	-	5	-	2	29	8	-	-	-	7	10	9	225
Big Rapids	250	-	4	-	-	28	4	-	-	-	5	2	6	201
Balance of County	45	-	1	-	2	1	4	-	-	-	2	8	3	24
MENOMINEE	386	-	4	-	8	2	6	1	-	-	3	7	-	355
Menominee	331	-	3	-	-	-	4	-	-	-	3	6	-	315
Balance of County	55	-	1	-	8	2	2	1	-	-	-	1	-	40
MIDLAND	4,101	-	126	-	15	37	9	-	-	-	4	7	10	3,893
Midland	2,440	-	94	-	9	14	6	-	-	-	4	6	9	2,298
Balance of County	1,661	-	32	-	6	23	3	-	-	-	-	1	1	1,595
MISSAUKEE	53	-	1	-	-	1	-	-	-	-	-	1	2	48
MONROE	876	-	54	-	6	51	45	2	1	-	26	17	17	657
Milan Pt.	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Monroe	181	-	2	-	-	6	12	2	1	-	10	10	5	133
Balance of County	694	-	52	-	6	45	33	-	-	-	15	7	12	524
MONTCALM	184	-	-	-	-	90	3	-	-	-	10	7	11	63
Greenville	9	-	-	-	-	-	-	-	-	-	2	4	3	-
Balance of County	175	-	-	-	-	90	3	-	-	-	8	3	8	63
MONTMORENCY	8	-	-	-	-	-	1	-	-	-	-	1	-	6
MUSKEGON	1,770	-	24	-	4	140	28	3	-	-	44	60	175	1,292
Muskegon	396	-	2	-	2	38	11	1	-	-	26	42	103	171
Muskegon Heights	438	-	2	-	-	8	6	-	-	-	9	15	51	347
North Muskegon	46	-	-	-	-	-	-	-	-	-	-	-	-	39
Roosevelt Park	13	-	-	-	-	2	-	-	-	-	-	-	-	11
Whitehall	114	-	2	-	-	-	1	-	-	-	-	-	-	110
Balance of County	763	-	18	-	2	90	10	1	-	-	9	2	17	614
NEWAYGO	72	-	3	-	-	34	9	1	-	-	2	6	2	15
Fremont	13	-	-	-	-	8	1	-	-	-	-	3	1	-
Balance of County	59	-	3	-	-	26	8	1	-	-	2	3	1	15

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Hepatitis, infectious and serum*	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases**
OAKLAND	18,713	-	562	-	37	207	109	3	-	-	238	245	608	16,704
Berkley	784	-	42	-	1	2	1	-	-	-	6	5	7	720
Beverly Hills	2	-	-	-	-	1	-	-	-	-	-	-	-	1
Birmingham	1,217	-	68	-	1	6	1	1	-	-	9	9	12	1,110
Clawson	729	-	19	-	-	4	-	-	-	-	5	7	2	692
Farmington	1,137	-	39	-	-	9	8	-	-	-	7	10	4	1,060
Ferndale	576	-	21	-	2	7	6	-	-	-	5	20	27	472
Hazel Park	643	-	11	-	9	3	2	-	-	-	21	11	19	568
Holly	61	-	3	-	-	-	2	-	-	-	1	2	6	47
Huntington Woods	115	-	1	-	-	-	1	-	-	-	1	1	-	111
Keego Harbor	7	-	-	-	-	-	-	-	-	-	1	1	2	3
Lake Orion	312	-	6	-	-	1	1	-	-	-	5	2	2	295
Lathrup Village	33	-	1	-	-	-	-	-	-	-	1	-	-	31
Madison Heights	668	-	27	-	-	3	2	-	-	-	18	10	27	581
Milford	64	-	6	-	-	3	2	-	-	-	-	1	3	49
Northville Pt.	6	-	-	-	-	-	-	-	-	-	-	-	-	6
Novi	101	-	5	-	-	-	1	-	-	-	-	1	1	92
Oak Park	1,522	-	29	-	3	11	2	-	-	-	5	4	8	1,460
Pleasant Ridge	36	-	3	-	-	-	-	-	-	-	-	-	1	32
Pontiac	1,870	-	23	-	4	33	24	-	-	-	63	89	366	1,268
Rochester	136	-	1	-	-	5	5	-	-	-	1	11	15	98
Royal Oak	3,115	-	85	-	5	14	10	-	-	-	21	20	29	2,931
Southfield	1,455	-	44	-	-	6	2	-	-	-	15	10	13	1,365
Troy	459	-	15	-	-	5	-	1	-	-	3	2	5	428
Walled Lake	326	-	11	-	1	35	6	-	-	-	5	3	1	264
Balance of County	3,339	-	102	-	11	58	33	1	-	-	30	26	58	3,020
OCEANA	21	-	-	-	-	3	3	1	-	-	4	3	3	4
OGEAW	9	-	-	-	-	-	1	-	-	-	3	3	2	-
ONTONAGON	54	-	-	-	-	-	1	-	-	-	8	-	1	44
OSCEOLA	114	-	-	-	3	2	3	-	-	-	7	2	4	93
OSCODA	18	-	-	-	5	-	3	-	-	-	-	3	-	7
OTSEGO	20	-	-	-	-	-	3	-	-	-	1	11	2	3
Gaylord	13	-	-	-	-	-	1	-	-	-	1	10	-	1
Balance of County	7	-	-	-	-	-	2	-	-	-	-	1	2	2
OTTAWA	1,944	-	245	-	8	182	10	-	-	-	12	7	43	1,437
Grand Haven	287	-	19	-	-	9	1	-	-	-	1	1	13	243
Holland Pt.	265	-	11	-	4	9	2	-	-	-	3	3	10	223
Hudsonville	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zeeland	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	1,387	-	215	-	4	164	7	-	-	-	2	-	3	-
PRESQUE ISLE	45	-	3	-	-	-	1	-	-	-	6	2	3	30
Rogers City	22	-	1	-	-	-	-	-	-	-	1	-	2	18
Balance of County	23	-	2	-	-	-	1	-	-	-	5	2	1	12
ROSCOMMON	95	-	1	-	-	1	1	1	-	-	5	1	7	78
SAGINAW	4,567	-	187	-	20	86	30	10	-	-	54	168	107	3,905
Chesaning	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Saginaw	2,237	-	40	-	17	61	10	4	-	-	28	158	100	1,819
Balance of County	2,329	-	147	-	3	25	20	6	-	-	26	10	6	2,086
ST. CLAIR	1,046	-	50	-	2	64	23	2	-	1	18	29	26	831
Algonac	14	-	-	-	-	1	1	-	-	-	2	2	2	6
Marine City	25	-	-	-	-	-	3	-	-	-	-	-	1	21
Marysville	29	-	2	-	-	3	1	-	-	-	1	-	-	22
New Baltimore Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Huron	596	-	41	-	-	31	5	2	-	-	7	20	19	471
St. Clair	32	-	-	-	-	1	5	-	-	-	5	4	2	15
Balance of County	350	-	7	-	2	28	8	-	-	1	3	3	2	296
ST. JOSEPH	723	-	2	-	-	12	1	-	-	-	6	17	13	672
Sturgis	203	-	-	-	-	1	-	-	-	-	-	5	9	188
Three Rivers	124	-	-	-	-	-	-	-	-	-	-	8	3	113
Balance of County	396	-	2	-	-	11	1	-	-	-	6	4	1	371
SANILAC	110	-	23	-	2	13	5	1	-	-	5	7	3	51
SCHOOLCRAFT	8	-	-	-	-	-	2	-	-	-	3	-	-	3
Manistique	4	-	-	-	-	-	1	-	-	-	2	-	-	1
Balance of County	4	-	-	-	-	-	1	-	-	-	1	-	-	2
SHIawassee	582	-	26	-	-	10	17	-	-	-	7	12	29	481
Corunna	3	-	1	-	-	-	-	-	-	-	-	1	1	-
Durand	10	-	-	-	-	-	2	-	-	-	-	3	5	-
Owosso	146	-	6	-	-	2	4	-	-	-	2	5	16	111
Balance of County	423	-	19	-	-	8	11	-	-	-	5	3	7	370
TUSCOLA	160	-	1	-	-	1	21	-	-	-	9	6	6	116
Caro	110	-	1	-	-	1	1	-	-	-	2	2	1	102
Vassar	16	-	-	-	-	-	-	-	-	-	-	2	2	12
Balance of County	34	-	-	-	-	-	20	-	-	-	7	2	3	2



TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Hepatitis, infectious and serum*	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases**
VAN BUREN	865	1	17	-	3	21	11	-	-	-	30	39	58	685
Faw Faw	151	-	2	-	1	2	1	-	-	-	1	1	3	140
South Haven	172	-	-	-	-	-	-	-	-	-	6	7	21	138
Balance of County	542	1	15	-	2	19	10	-	-	-	23	31	34	407
WASHTENAW	3,349	1	712	-	2	27	44	-	-	-	38	99	163	2,263
Ann Arbor	2,184	-	639	-	1	7	22	-	-	-	12	43	51	1,409
Chelsea	4	-	-	-	-	-	-	-	-	-	-	1	3	-
Milan Pt.	23	-	-	-	-	-	-	-	-	-	2	20	1	-
Ypsilanti	428	1	13	-	1	3	9	-	-	-	9	33	98	261
Balance of County	710	-	60	-	-	17	13	-	-	-	15	2	10	593
WAYNE	60,502	3	2,400	11	1,062	658	530	40	3	-	1,816	3,499	6,540	43,940
Allen Park	609	-	4	-	1	7	6	1	-	-	3	10	5	572
Dearborn	2,451	-	108	-	12	16	32	-	-	-	59	63	39	2,122
Detroit	42,104	2	1,588	10	998	402	302	28	2	-	1,429	3,030	6,058	28,255
Ecorse	205	-	2	-	-	1	3	-	1	-	16	17	30	135
Flat Rock	34	-	-	-	-	1	4	-	-	-	4	4	3	18
Garden City	857	-	22	-	1	44	15	1	-	-	8	11	15	740
Grosse Pointe	208	-	2	-	-	-	1	-	-	-	2	8	1	194
Grosse Pte. Farms	146	-	3	-	-	3	-	-	-	-	3	1	1	135
Grosse Pte. Park	155	-	2	-	-	2	-	-	-	-	-	1	-	150
Grosse Pte. Woods	255	-	-	-	-	4	1	-	-	-	-	2	-	248
Hamtramck	218	-	-	-	3	4	1	-	-	-	28	18	49	115
Harper Woods	191	-	1	-	3	4	-	-	-	-	4	4	6	169
Highland Park	426	-	7	-	16	5	3	1	-	-	30	79	36	249
Inkster	792	-	4	-	2	21	14	1	-	-	28	52	122	548
Lincoln Park	258	-	7	-	-	4	6	1	-	-	16	17	13	194
Livonia	1,536	1	59	-	2	21	18	1	-	-	24	12	12	1,386
Melvindale	72	-	1	-	-	5	1	-	-	-	1	8	7	49
Northville Pt.	147	-	89	-	-	-	2	-	-	-	3	14	2	37
Plymouth	587	-	283	-	-	3	5	-	-	-	2	5	7	282
River Rouge	911	-	59	-	10	3	2	-	-	-	22	24	38	753
Riverview	288	-	13	-	2	1	3	-	-	-	-	1	2	266
Southgate	208	-	9	1	-	6	5	-	-	-	11	1	6	169
Trenton	688	-	32	-	-	-	4	-	-	-	7	-	3	642
Wayne	529	-	13	-	-	10	12	-	-	-	24	32	40	398
Wyandotte	1,570	-	46	-	4	4	8	1	-	-	17	14	7	1,469
Balance of County	5,057	-	46	-	8	87	82	5	-	-	75	71	38	4,645
WEXFORD	259	-	2	-	8	1	6	2	-	-	3	2	2	233
Cadillac	94	-	-	-	-	-	2	1	-	-	2	2	2	85
Balance of County	165	-	2	-	8	1	4	1	-	-	1	-	-	148

\*Ten of these were serum hepatitis.

\*\*Includes:

Ankylostomiasis	2	Erysipelas	16	Psittacosis	4
Bites, animal	26,010	Impetigo	1,580	Rabies in animals	50
Botulism	5	Infectious mononucleosis	598	Ringworm	1,692
Chickenpox	20,465	Influenza	2,190	Rubella	1,637
Conjunctivitis (Kerato)	2	Measles	48,752	Salmonella infections	486
Dengue	2	Meningitis, aseptic	125	Scabies	85
Diarrhea, epidemic (infants under 1 year)	304	Meningitis, influenzal	48	Tetanus	6
Dysentery, amebic	43	Meningitis, other	160	Trachoma	1
Dysentery, bacillary	459	Mumps	10,688	Trichinosis	3
Encephalitis, infectious	57	Pediculosis	31	Tularemia	1
		Pink eye	375	Weil's disease	1

TABLE 6A - ACCIDENTAL DEATHS BY CAUSE, SEX, AND AGE MICHIGAN, 1963

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

CAUSE OF DEATH	INT. LIST NUMBER	N U M B E R										P E R C E N T									
		AGE IN YEARS										AGE IN YEARS									
		All Ages	Under 1	1/4	5/14	15/24	25/44	45/64	65/74	75 & Over	All Ages	Under 1	1/4	5/14	15/24	25/44	45/64	65/74	75 & Over		
GRAND TOTAL	E800-E962	4,033	126	178	298	659	828	850	432	662	100	3.1	4.4	7.4	16.4	20.5	21.1	10.7	16.4		
Male		2,692	73	97	204	509	617	612	268	312	100	2.7	3.6	7.6	18.9	22.9	22.7	10.0	11.6		
Female		1,341	53	81	94	150	211	238	164	350	100	4.0	6.0	7.0	11.2	15.7	17.8	12.2	26.1		
TRANSPORT TOTAL	E800-E866	2,147	17	73	170	517	564	484	198	124	53.2	13.5	41.0	57.0	78.5	68.1	56.9	45.8	18.7		
Male		1,505	9	33	110	388	420	333	123	89	37.3	7.2	18.5	36.9	58.9	50.7	39.2	28.5	13.4		
Female		642	8	40	60	129	144	151	75	35	15.9	6.3	22.5	20.1	19.6	17.4	17.7	17.3	5.3		
Motor vehicle*	E810-E835	2,005	17	73	149	491	523	444	187	121	49.7	13.5	41.0	50.0	74.5	63.2	52.2	43.3	18.3		
Railroad - not with motor vehicle	E800-E802	10	-	-	-	1	2	4	1	2	0.2	0	0	0	0.1	0.2	0.5	0.2	0.3		
Other road vehicle - not with motor vehicle	E840-E845	10	-	-	4	3	1	1	1	-	0.2	0	0	1.4	0.5	0.1	0.1	0.2	0		
Water transportation**	E850-E858	88	-	-	12	19	24	24	8	1	2.2	0	0	4.0	2.9	2.9	2.8	1.9	0.1		
Air transportation	E860-E866	34	-	-	5	3	14	11	1	-	0.9	0	0	1.6	0.5	1.7	1.3	0.2	0		
NON-TRANSPORT TOTAL	E870-E936	1,842	107	105	127	138	254	356	226	529	45.7	84.9	59.0	42.6	20.9	30.7	41.9	52.3	79.9		
Male		1,160	62	64	93	119	190	271	141	220	28.8	49.2	36.0	31.2	18.0	23.0	31.9	32.6	33.2		
Female		682	45	41	34	19	64	85	85	309	16.9	35.7	23.0	11.4	2.9	7.7	10.0	19.7	46.7		
Poisoning	E870-E895	133	6	11	3	22	41	32	12	6	3.3	4.8	6.2	1.0	3.3	4.9	3.8	2.8	0.9		
Falls	E900-E904	818	7	10	11	8	49	130	149	454	20.3	5.5	5.6	3.7	1.2	5.9	15.3	34.5	68.6		
Blow from falling object	E910	50	-	-	1	8	17	22	1	1	1.2	0	0	0.3	1.2	2.1	2.6	0.2	0.1		
Machinery	E912	69	-	-	4	4	15	37	6	3	1.7	0	0	1.4	0.6	1.8	4.3	1.4	0.5		
Electric current	E914	31	-	2	3	5	14	5	2	-	0.8	0	0	1.0	0.7	1.7	0.6	0.5	0		
Fire and explosion of combustible material	E916	269	10	42	28	13	53	64	26	33	6.7	7.9	23.6	9.4	2.0	6.4	7.5	6.0	5.0		
Hot substance, corrosive liquid, steam, radiation	E917, E918	20	-	5	-	2	1	3	3	6	0.5	0	2.8	0	0.3	0.1	0.4	0.7	0.9		
Firearm	E919	41	-	1	9	15	8	7	1	-	1.0	0	0.6	3.0	2.3	1.0	0.8	0.2	0		
Inhalation or ingestion of food or other object	E921, E922	72	36	4	1	3	8	10	5	5	1.8	28.6	2.2	0.3	0.5	1.0	1.2	1.2	0.7		
Foreign body entering other orifice	E923	44	11	4	4	-	9	8	2	6	1.1	8.7	2.2	1.4	0.1	1.1	0.9	0.5	0.9		
Mechanical suffocation	E924, E925	36	21	1	1	4	5	3	1	-	0.9	16.7	0.6	0.3	0.6	0.6	0.4	0.2	0		
Drowning and submersion	E929	166	-	19	51	47	20	19	7	3	4.1	10.7	17.1	7.1	2.4	2.2	2.2	1.6	0.5		
Other causes		93	16	6	11	7	14	16	11	12	2.3	12.7	3.4	3.7	1.1	1.7	1.9	2.5	1.8		
THERAPEUTIC MISADVENTURE & LATE COMPLICATION, COMPLICATIONS OF NONTHERAPEUTIC PROCEDURES, LATE EFFECTS OF INJURY & POISONING	E940-E962	44	2	-	1	4	10	10	8	9	1.1	1.6	0	0.3	0.6	1.2	1.2	1.9	1.4		

\* Forty-two of these were non-traffic accidents.  
 \*\* Eighty-five of these were drownings resulting from water transport accidents.

TABLE 6B - NON-TRANSPORT ACCIDENTAL DEATHS BY PLACE OF ACCIDENT AND CAUSE  
MICHIGAN, 1963

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

PLACE OF ACCIDENT	N U M B E R											P E R C E N T				
	TOTAL	E870- E895 Poisoning	E900- E904 Falls	E910 Blow from falling object	E912 Machinery	E914 Electric current	E916 Fire and explosion	E917, E918 Hot substance, corrosive liquid, steam and radiation	E919 Firearm	E921, E922 Inhalation and ingestion of food or other object causing obstruction or suffocation	E923 Foreign body entering other orifice	E924, E925 Mechanical suffocation	E929 Drowning	Other		
NON-TRANSPORT TOTAL	1,842	133	818	50	69	31	269	20	41	72	44	36	166	93		
Home	848	83	370	6	2	14	237	15	13	38	7	21	10	32		
Farm	68	3	10	10	24	1	3	-	8	-	-	1	5	3		
Mine and quarry	15	-	2	1	4	1	2	-	1	-	-	1	3	1		
Industrial place and premises	70	1	13	15	27	3	2	-	-	-	-	3	1	5		
Place for recreation and sport	21	1	4	1	-	-	-	-	-	-	-	-	11	3		
Street and highway	85	15	38	7	5	3	7	-	2	-	-	4	1	3		
Public building	56	5	31	3	-	1	4	-	3	-	-	1	2	3		
Resident institution	125	1	94	-	-	1	4	1	3	10	4	-	2	6		
Other specified places	194	7	17	5	4	4	2	-	12	2	-	3	130	8		
Place not specified	360	17	239	2	3	2	7	4	-	21	33	2	1	29		
NON-TRANSPORT TOTAL	100	7.2	44.4	2.7	3.7	1.7	14.6	1.1	2.2	3.9	2.4	2.0	9.0	5.1		
Home	100	9.8	43.6	0.7	0.2	1.7	27.9	1.8	1.5	4.5	0.8	2.5	1.2	3.8		
Farm	100	4.4	14.7	14.7	35.3	1.5	4.4	0	11.8	0	0	1.5	7.3	4.4		
Mine and quarry	100	0	13.3	6.7	26.6	13.3	2.9	0	6.7	0	0	6.7	20.0	6.7		
Industrial place and premises	100	1.4	18.6	21.4	38.6	4.3	2.9	0	0	0	0	4.3	1.4	7.1		
Place for recreation and sport	100	4.8	19.0	4.8	0	0	0	0	0	4.8	0	0	52.3	14.3		
Street and highway	100	17.7	44.7	8.2	5.9	3.5	8.2	0	2.4	0	0	4.7	1.2	3.5		
Public building	100	8.9	55.3	5.4	0	1.8	12.5	0	5.4	0	0	1.8	3.5	5.4		
Resident institution	100	0.8	75.2	0	0	0.8	3.2	0.8	1.6	8.0	3.2	0	1.6	4.8		
Other specified places	100	3.6	8.8	2.6	2.1	2.1	1.0	0	6.2	1.0	0	1.5	67.0	4.1		
Place not specified	100	4.7	66.4	0.6	0.8	0.6	1.9	1.1	0	5.8	9.2	0.6	0.3	8.0		

TABLE 6C - ACCIDENTAL DEATHS BY PLACE OF ACCIDENT AND LEADING CAUSES OF DEATH  
MICHIGAN, 1963

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

PLACE OF ACCIDENT AND LEADING CAUSES OF DEATH	Number	Percent	Percent of Total	
GRAND TOTAL	4,033		100	
TRANSPORT	2,147		53.2	
MOTOR VEHICLE	2,005	100		49.7
OTHER TRANSPORT	142	100		3.5
Water transportation	88	62.0		
Air transportation	34	24.0		
Railroad	10	7.0		
Other road vehicle	10	7.0		
NON-TRANSPORT	1,842		45.7	
HOME	848	100		21.0
Falls	370	43.6		
Fire & explosion of combustible material	237	27.9		
Poisoning	83	9.8		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	38	4.5		
Mechanical suffocation	21	2.5		
Hot substance, corrosive liquid, steam, & radiation	15	1.8		
Other	84	9.9		
FARM	68	100		1.7
Machinery	24	35.3		
Falls	10	14.7		
Blow from falling object	10	14.7		
Firearm	8	11.8		
Drowning	5	7.3		
Other	11	16.2		
MINE AND QUARRY	15	100		0.4
Machinery	4	26.7		
Drowning	3	20.0		
Falls	2	13.3		
Electric current	2	13.3		
Other	4	26.7		
INDUSTRIAL PLACE AND PREMISES	70	100		1.8
Machinery	27	38.6		
Blow from falling object	15	21.4		
Falls	13	18.6		
Electric current	3	4.3		
Mechanical suffocation	3	4.3		
Other	9	12.8		
RECREATION AND SPORT	21	100		0.5
Drowning	11	52.4		
Falls	4	19.0		
Lightning	2	9.6		
Other	4	19.0		
STREET AND HIGHWAY	85	100		2.1
Falls	38	44.7		
Poisoning	15	17.7		
Blow from falling object	7	8.2		
Fire & explosion of combustible material	7	8.2		
Machinery	5	5.9		
Other	13	15.3		
PUBLIC BUILDING	56	100		1.4
Falls	31	55.3		
Fire & explosion of combustible material	7	12.5		
Poisoning	5	8.9		
Blow from falling object	3	5.4		
Firearm	3	5.4		
Other	7	12.5		
RESIDENT INSTITUTION	125	100		3.1
Falls	94	75.2		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	10	8.0		
Fire & explosion of combustible material	4	3.2		
Foreign body entering other orifice	4	3.2		
Other	13	10.4		
OTHER SPECIFIED PLACES	194	100		4.8
Drowning	130	67.0		
Falls	17	8.8		
Firearm	12	6.2		
Poisoning	7	3.6		
Other	28	14.4		
PLACE NOT SPECIFIED	360	100		8.9
Falls	239	66.4		
Foreign body entering other orifice	33	9.2		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	21	5.8		
Poisoning	17	4.7		
Fire & explosion of combustible material	7	1.9		
Other	43	12.0		
THERAPEUTIC MISADVENTURE AND LATE COMPLICATIONS, COMPLICATIONS OF NONTHERAPEUTIC PROCEDURES, LATE EFFECTS OF INJURY AND POISONING	44		1.1	

TABLE 6D - NON-TRANSPORT ACCIDENTAL DEATHS BY PLACE OF ACCIDENT, AGE, AND CAUSE  
MICHIGAN, 1963

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

PLACE OF ACCIDENT AND AGE	TOTAL	SEX		Poisoning E870- E895	Falls E900- E904	Blow from falling object E910	Machinery E912	Electric current E914	Fire and explosion E916	Hot substance, corrosive liquid, steam and radiation E917, E918	Firearm E919	Inhalation and ingestion of food E921, or other object causing obstruction or suffocation E922	Foreign body entering other orifice E923	Mechanical suffocation E924, E925	Drowning E929	Other
		Male	Female													
NON-TRANSPORT TOTAL	1,842	1,160	682	133	818	50	69	31	269	20	41	72	44	36	166	93
HOME-ALL AGES	848	494	354	83	370	6	2	14	237	15	13	38	7	21	10	32
Under 1	77	50	27	2	5	-	-	-	10	-	-	26	2	18	-	14
1 - 4	83	51	32	9	7	-	-	2	41	5	1	4	2	1	8	3
5 - 14	46	29	17	1	6	-	-	3	26	-	4	-	1	-	-	5
15 - 24	32	27	5	10	1	2	-	1	10	-	4	-	-	-	-	3
25 - 44	107	63	44	24	22	1	-	4	46	2	2	3	2	1	1	1
45 - 64	161	105	56	24	69	3	1	2	57	2	1	-	-	1	-	1
65 & Over	342	169	173	13	260	-	1	2	47	8	1	4	-	-	1	5
FARM-ALL AGES	68	62	6	3	10	10	24	1	3	-	8	-	-	1	5	3
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	3	3	-	-	1	-	-	-	-	-	-	-	-	-	2	-
5 - 14	9	8	1	-	1	-	3	-	-	-	3	-	-	-	2	-
15 - 24	7	6	1	1	1	1	1	-	-	-	2	-	-	-	-	1
25 - 44	12	11	1	1	3	3	3	1	1	-	2	-	-	-	-	-
45 - 64	24	22	2	1	3	5	12	-	1	-	1	-	-	-	1	-
65 & Over	13	12	1	-	4	1	5	-	1	-	-	-	-	-	-	2
MINE & QUARRY-ALL AGES	15	15	-	-	2	1	4	2	-	-	1	-	-	1	3	1
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	3	3	-	-	-	-	-	-	-	-	-	-	-	1	2	-
15 - 24	2	2	-	-	-	-	1	-	-	-	1	-	-	-	1	-
25 - 44	4	4	-	-	1	-	-	2	-	-	-	-	-	-	-	-
45 - 64	6	6	-	-	1	1	3	-	-	-	-	-	-	-	-	1
65 & Over	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDUSTRIAL PLACE & PREMISES-ALL AGES	70	70	-	1	13	15	27	3	2	-	-	-	-	3	1	5
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
15 - 24	3	3	-	-	1	1	8	1	1	-	-	-	-	-	-	1
25 - 44	30	30	-	1	6	8	8	2	1	-	-	-	-	3	-	2
45 - 64	31	31	-	-	4	6	18	1	1	-	-	-	-	-	-	-
65 & Over	5	5	-	-	2	-	1	-	-	-	-	-	-	-	-	-
PLACE FOR RECREATION & SPORT-ALL AGES	21	18	3	1	4	1	-	-	-	-	-	1	-	-	11	3
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	9	7	2	-	1	-	-	-	-	-	-	-	-	-	7	1
15 - 24	5	4	1	-	1	-	-	-	-	-	-	1	-	-	2	1
25 - 44	4	4	-	-	1	1	-	-	-	-	-	-	-	-	1	1
45 - 64	3	3	-	1	1	-	-	-	-	-	-	-	-	-	1	-
65 & Over	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STREET & HIGHWAY-ALL AGES	85	64	21	15	38	7	5	3	7	-	2	-	-	4	1	3
Under 1	2	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
1 - 4	2	1	1	-	-	-	-	-	1	-	-	-	-	-	1	-
5 - 14	2	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
15 - 24	13	9	4	6	1	1	1	2	2	-	1	-	-	-	-	1
25 - 44	26	23	3	7	6	3	3	2	2	-	1	-	-	-	-	2
45 - 64	20	15	5	-	13	2	2	-	1	-	-	-	-	2	-	-
65 & Over	20	15	5	1	18	-	-	-	1	-	-	-	-	-	-	-
PUBLIC BUILDING-ALL AGES	56	45	11	5	31	3	-	1	7	-	3	-	-	1	2	3
Under 1	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	2	2	-	-	1	-	-	-	-	-	-	-	-	-	1	-
15 - 24	9	7	2	3	-	2	-	-	1	-	2	-	-	1	-	1
25 - 44	11	10	1	1	7	-	-	-	1	-	1	-	-	-	-	1
45 - 64	13	12	1	-	8	1	-	1	1	-	-	-	-	-	1	1
65 & Over	19	13	6	-	14	-	-	-	4	-	-	-	-	-	-	1
RESIDENT INSTITUTION-ALL AGES	125	62	63	1	94	-	-	1	4	1	2	10	4	-	2	6
Under 1	4	2	2	-	-	-	-	-	-	-	-	2	2	-	-	2
1 - 4	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
15 - 24	3	2	1	-	-	-	-	-	-	1	1	1	-	-	-	-
25 - 44	7	3	4	1	-	-	-	-	-	-	1	2	-	-	2	1
45 - 64	13	9	4	-	7	-	-	1	2	-	-	3	-	-	-	-
65 & Over	94	42	52	-	87	-	-	-	2	-	-	2	1	-	-	2
OTHER SPECIFIED PLACES-ALL AGES	194	161	33	7	17	5	4	4	2	-	12	2	-	3	130	8
Under 1	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
1 - 4	9	4	5	-	1	-	-	-	-	-	-	-	-	-	8	-
5 - 14	46	36	10	-	1	-	1	-	1	-	2	1	-	-	38	2
15 - 24	61	56	5	2	3	1	2	1	-	-	5	-	-	2	44	1
25 - 44	30	24	6	3	2	1	-	3	1	-	-	-	-	1	16	3
45 - 64	36	31	5	2	8	2	1	-	-	-	5	-	-	-	16	2
65 & Over	11	9	2	-	2	1	-	-	-	-	-	-	-	-	8	-
PLACE NOT SPECIFIED-ALL AGES	360	169	191	17	239	2	3	2	7	4	-	21	33	2	1	29
Under 1	22	9	13	4	1	-	-	-	-	-	-	7	7	1	-	2
1 - 4	4	1	3	1	1	-	-	-	-	-	-	-	3	-	-	1
5 - 14	8	5	3	1	1	-	-	-	1	-	-	-	1	-	-	1
15 - 24	3	3	-	-	4	-	1	-	1	-	-	-	-	-	-	3
25 - 44	23	18	5	3	5	-	-	1	1	-	-	3	7	-	-	3
45 - 64	49	37	12	4	16	2	-	1	1	1	-	7	8	-	9	
65 & Over	251	96	155	4	216	-	2	-	4	1	-	4	7	1	1	11

TABLE 6E - ACCIDENTAL DEATHS BY CAUSE AND COUNTY OF RESIDENCE  
MICHIGAN, 1963

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955, Intermediate List of 150 Causes.  
Rates per 100,000 population.)

COUNTY	TOTAL		AE138 Motor vehicle accidents	AE139 Other transport accidents	AE140 Accidental poisoning	AE141 Accidental falls	AE142 Accident caused by machinery	AE143 Accident caused by fire & explosion of combustible material	AE144 Accident caused by hot substance, corrosive liquid, steam & radiation	AE145 Accident caused by firearm	AE146 Accidental drowning & submersion	AE147 All other accidental causes
	Number	Rate										
STATE	4,033	50.2	2,005	142	133	818	69	269	20	41	166	370
Alcona	7	114.8	6	-	-	1	-	-	-	-	-	-
Alger	13	146.1	7	-	-	1	1	2	-	1	-	1
Allegan	40	70.3	17	2	1	10	1	4	-	-	2	3
Alpena	10	34.6	4	-	-	2	1	-	1	-	2	-
Antrim	12	115.4	7	1	1	2	-	1	-	-	-	-
Arenac	8	84.2	4	1	-	3	-	-	-	-	-	-
Baraga	5	67.6	1	-	-	-	-	1	-	-	1	2
Barry	21	72.9	10	1	1	4	1	1	-	-	-	3
Bay	63	59.4	40	4	2	6	2	2	-	-	1	6
Benzie	6	75.0	2	-	-	3	-	1	-	-	-	-
Berrien	89	57.8	41	6	5	15	5	8	-	-	4	5
Branch	32	92.2	14	-	-	13	2	2	-	-	-	1
Calhoun	84	61.2	43	2	1	14	1	5	1	-	3	14
Cass	22	59.1	11	2	-	3	-	2	-	-	-	4
Charlevoix	11	78.6	8	-	-	2	-	-	-	-	-	1
Cheboygan	10	72.5	3	-	-	2	-	2	-	-	-	3
Chippewa	34	95.0	13	1	1	4	1	5	1	1	2	5
Clare	8	66.1	5	-	-	2	-	1	-	-	-	-
Clinton	26	62.1	12	2	-	3	-	3	-	2	1	3
Crawford	9	173.1	1	-	1	1	-	5	-	-	-	1
Delta	21	62.1	10	1	-	6	-	-	-	-	4	-
Dickinson	8	32.9	3	1	-	2	-	-	-	1	1	-
Eaton	29	55.6	17	1	-	5	-	-	-	-	3	3
Emmet	13	80.7	7	-	-	2	1	-	-	-	2	-
Genesee	224	55.8	133	4	5	32	3	17	-	1	11	18
Gladwin	7	68.6	4	1	1	1	-	-	-	-	-	-
Gogebic	19	86.4	8	-	-	1	-	2	-	3	-	5
Grand Traverse	18	51.0	10	-	1	3	-	2	-	1	-	1
Gratiot	24	64.0	14	-	1	4	-	3	1	-	-	1
Hillsdale	23	68.0	9	2	1	3	2	1	1	-	2	2
Houghton	28	80.2	9	-	-	10	-	1	-	1	3	4
Huron	25	72.5	15	-	-	5	-	-	-	-	-	5
Ingham	79	35.5	32	1	1	22	1	6	1	-	6	9
Ionia	24	55.0	16	-	-	5	1	-	-	-	-	2
Iosco	11	53.1	6	-	1	1	-	1	-	-	-	2
Iron	13	81.8	7	1	-	4	-	-	-	-	-	1
Isabella	22	62.5	8	2	1	2	2	1	-	-	2	4
Jackson	74	55.3	39	5	2	12	2	2	1	2	2	7
Kalamazoo	74	42.4	37	4	6	13	-	1	-	1	2	10
Kalkaska	6	136.4	1	-	1	-	-	4	-	-	-	-
Kent	187	49.4	94	5	6	50	-	7	1	1	9	14
Keweenaw	1	40.0	1	-	-	-	-	-	-	-	-	-
Lake	9	173.1	6	-	-	1	-	1	-	-	-	1
Lapeer	29	66.8	12	3	2	5	1	1	-	-	1	4
Leelanau	9	95.7	4	-	1	2	-	1	-	-	-	1
Lenawee	41	54.2	20	4	1	7	-	-	-	1	2	6
Livingston	20	50.5	10	-	4	3	-	-	-	-	1	2
Luce	3	41.7	2	-	-	1	-	-	-	-	-	-
Mackinac	11	103.8	2	1	-	-	2	5	-	-	1	-
Macomb	177	37.1	93	8	6	29	2	7	-	1	10	21
Manistee	22	114.6	13	3	1	3	-	1	-	-	-	1
Marquette	37	60.3	12	3	5	6	-	2	1	1	1	6
Mason	22	101.4	10	3	-	3	-	3	-	1	-	2
Mecosta	15	68.8	11	-	-	2	-	-	-	-	-	2
Menominee	14	57.6	7	-	1	5	-	1	-	-	-	-
Midland	23	43.8	10	2	-	3	1	-	-	1	3	3
Missaukee	6	93.8	3	-	1	1	-	-	-	-	-	1
Monroe	61	58.5	34	1	2	9	-	3	1	1	3	7
Montcalm	32	86.0	16	2	1	4	1	4	-	-	1	3
Montmorency	3	71.4	2	-	-	-	-	-	-	-	-	1
Muskegon	69	45.2	42	2	2	8	1	2	-	-	4	8
Newaygo	16	64.8	9	1	1	1	1	2	-	-	-	1
Oakland	304	41.9	179	9	9	48	1	25	2	3	9	19
Oceana	23	138.6	16	-	1	3	1	-	-	-	-	2
Ogemaw	9	97.8	5	-	-	2	1	-	-	-	-	1
Ontonagon	13	117.1	4	-	1	2	1	2	-	2	1	-
Osceola	6	44.4	4	-	-	-	1	-	-	-	-	1
Oscoda	1	28.6	-	-	-	1	-	-	-	-	-	-
Otsego	4	47.6	2	-	-	1	-	1	-	-	-	-
Ottawa	57	55.0	25	2	2	9	2	8	-	1	1	7
Presque Isle	1	7.7	-	-	-	1	-	-	-	-	-	-
Roscommon	8	109.6	5	-	1	-	-	-	-	-	1	1
Saginaw	94	47.8	46	11	2	15	3	4	1	-	5	7
St. Clair	85	79.7	50	1	1	13	2	4	-	1	4	9
St. Joseph	26	61.5	13	-	1	4	1	1	-	-	2	4
Sanilac	28	85.1	12	1	-	4	1	2	-	1	2	5
Schoolcraft	5	59.5	2	2	-	-	-	-	-	-	-	-
Shiawassee	34	61.8	15	1	-	14	2	-	-	-	1	1
Tuscola	34	77.6	20	-	-	4	2	3	-	1	1	3
Van Buren	40	78.9	23	1	2	7	1	1	-	1	-	4
Washtenaw	75	40.7	36	3	2	16	3	5	-	3	2	5
Wayne	1,106	41.6	497	28	39	301	11	86	7	4	45	88
Wexford	21	112.9	4	-	4	5	-	1	-	2	2	3

TABLE 7A - DEATHS BY INTERMEDIATE LIST OF CAUSES, SEX, COLOR, AND AGE MICHIGAN, 1963

(By place of residence. Exclusive of fetal deaths. Cause of death classified according to Seventh Revision of International List, 1955. Intermediate List of 150 Causes with additional subdivisions indicated by detailed list numbers. Rates per 100,000 population.)

CAUSE OF DEATH	INT. LIST NO.	TOTAL	SEX	NON-WHITE	AGE AT DEATH										90 and over																
					I n f a n t		1	5	10	15	20	25	30	35		40	45	50	55	60	65	70	75	80	85						
					Under 1 Day	Under 1 Week																									
ALL CAUSES		72,438	41,895	30,543	6,548	1,865	2,867	3,109	4,150	628	398	309	580	596	542	733	1,206	1,822	2,679	3,858	5,090	6,422	8,437	9,792	9,550	7,873	5,041	2,729	5		
White		65,890	38,237	27,653		1,530	2,382	2,585	3,429	561	345	283	533	509	468	565	964	1,460	2,274	3,304	4,477	5,674	7,625	9,199	9,137	7,612	4,853	2,653	5		
Female						673	1,397	1,522	2,002	307	200	175	361	374	288	360	574	929	1,431	2,171	3,046	3,773	4,793	5,531	5,052	3,703	2,145	1,020	2		
Male						657	985	1,063	1,427	234	145	108	172	135	160	205	390	531	843	1,431	1,901	2,832	3,668	4,085	3,909	2,708	1,633	3	3		
Nonwhite		6,548	3,658	2,890	6,548	335	485	524	721	87	53	26	47	87	94	168	240	362	405	554	613	748	812	593	413	261	188	76	-		
Male						185	264	277	388	49	22	12	26	54	47	79	136	208	235	325	340	406	472	242	243	133	79	33	-		
Female						150	221	247	333	38	31	14	21	33	47	89	104	154	170	229	273	342	340	221	171	128	109	43	-		
A 1-A 5		299	225	74	66	-	-	-	2	3	-	-	-	1	-	6	12	10	36	23	35	33	35	46	32	16	6	2	-		
A 1		276	215	61	60	-	-	-	-	-	-	-	-	5	11	9	33	34	34	32	34	32	33	41	31	16	6	2	-		
A 2		6	0.1	2	4	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
A 3		2	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 4		2	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 5		13	0.2	6	7	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 6-A10		72	0.9	51	21	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 6		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 7		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 8		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 9		5	0.1	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 10		65	0.8	47	18	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 11		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 12		3	0.0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 13		2	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 14		2	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 15		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 16		78	1.0	49	29	9	-	-	16	2	3	2	1	1	1	4	3	1	1	1	3	7	6	12	7	6	2	1	-	-	
A 17		50	0.4	14	16	4	-	-	2	10	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A 18		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 19		2	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 20		22	0.3	10	12	4	-	-	2	6	5	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
A 21		8	0.1	6	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 22		27	0.3	11	16	3	-	-	4	11	8	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A 23		56	0.7	22	34	7	-	-	1	3	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
A 24		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 25		67	0.8	37	30	9	-	-	8	7	3	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A 26		12,078	150.4	6,773	5,305	1,021	1	1	2	14	53	63	40	54	53	66	118	220	395	665	952	1,320	1,530	1,783	1,799	1,488	913	413	139	-	-
A 27		271	3.4	216	55	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 28		242	3.0	193	49	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 29		801	10.0	510	291	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 30		1,320	16.4	622	698	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 31		468	5.8	270	198	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 32		122	1.5	117	5	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 33		1,904	23.7	1,638	266	173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 34		1,057	13.2	11	1,046	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 35		333	4.1	-	333	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 36		243	3.0	-	243	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 37		671	8.4	-	671	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 38		158	2.0	95	63	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 39		119	1.5	69	50	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 40		3,182	39.6	1,641	1,541	239	1	1	1	5	20	25	13	14	16	20	22	62	90	168	252	346	429	470	465	385	232	110	38	-	-
A 41		505	6.3	315	190	36	-	-	1	7	31	27	14	18	7	3	9	8	20	27	24	34	42	65	69	50	36	11	3	-	-
A 42		682	8.5	405	277	52	-	-	2	2	7	10	13	18	12	23	20	33	36	71	74	82	78	94	64	29	9	5	-	-	









































































TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	MALIGNANT NEOPLASMS																	Total														
	A44 Buccal cavity & pharynx	A45 Esophagus	A46 Stomach	A47 Intestine, except rectum	A48 Rectum	A49 Larynx	A50 Trachea, bronchus & lung, not specified as secondary	A51 Breast	A52 Cervix uteri	A53 Other & unspecified parts of uterus	A54 Prostate	A55 Skin	A56 Bone & connective tissue	A57 All other & unspecified sites	A58 Leukemia & lymphomas	A59 Lymphosarcoma & other neoplasms of lymphatic & hematopoietic system	A60 Benign neoplasms of unspecified nature		A61 Nontoxic goiter	A62 Thyrotoxicosis with or without goiter	A63 Diabetes mellitus	A64 Avitaminosis & other deficiency states	A65 Anemias	A66 Allergic disorders; all other endocrine, metabolic & blood diseases	A67 Psychoses	A68 Psychoneuroses & disorders of personality	A69 Mental deficiency	A70 Vascular lesions affecting central nervous system	A71 Nonmeningococcal meningitis	A72 Multiple sclerosis	A73 Epilepsy	A75 Cataract
OAKLAND	17	15	50	99	31	5	156	76	17	12	45	16	12	230	41	51	24	1	1	139	4	12	12	464	3	6	-	425	8	7	12	-
Beverly Hills	27	1	2	4	1	1	6	1	2	1	2	-	1	2	1	2	2	-	-	5	-	-	-	2	-	-	-	13	-	-	-	-
Beverly Hills	6	-	1	-	-	-	1	1	1	1	1	-	1	2	1	1	1	-	-	1	-	-	-	1	-	-	-	2	-	-	-	-
Birmingham	43	1	3	4	-	-	7	8	2	2	2	1	1	3	2	4	2	-	-	5	-	-	-	3	-	-	-	22	-	-	-	-
Claremont	15	1	1	2	-	-	1	2	1	1	1	1	1	3	1	2	1	-	-	1	-	-	-	1	-	-	-	3	-	-	-	-
Easton	54	2	-	8	2	-	12	2	1	1	3	1	1	14	3	4	2	-	-	2	-	-	-	2	-	-	-	3	-	-	-	-
Fremont	30	1	2	4	2	-	9	1	1	1	1	1	1	2	3	1	-	-	3	-	-	-	7	-	-	-	23	-	-	-	-	
Hazel Park	7	-	-	-	-	-	2	1	2	-	-	-	-	2	1	1	-	-	3	-	-	-	3	-	-	-	4	-	-	-	-	
Holly	9	-	1	-	1	-	2	-	-	-	-	-	-	2	1	1	-	-	3	-	-	-	4	-	-	-	5	-	-	-	-	
Huntington Woods	6	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	4	-	-	-	1	-	-	-	3	-	-	-	-	
Keego Harbor	5	-	-	-	-	-	1	-	-	-	-	-	-	3	1	1	-	-	1	-	-	-	1	-	-	-	3	-	-	-	-	
Lake Orion	8	-	-	-	-	-	1	3	-	-	-	-	-	3	1	1	-	-	1	-	-	-	1	-	-	-	5	-	-	-	-	
Lathrup Village	23	1	-	2	-	-	6	3	-	-	-	-	-	7	3	1	3	-	-	3	-	-	1	-	-	-	1	-	-	-	-	
Madison Heights	6	1	-	-	-	-	2	1	-	-	-	-	-	1	3	1	-	-	2	-	-	-	1	-	-	-	7	-	-	-	-	
Milford	2	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	
Northville Pt.	2	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	
Novi	3	1	-	3	-	-	1	1	-	-	-	-	-	1	1	1	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	
Oak Park	31	1	5	8	7	7	28	11	2	2	7	2	1	97	5	6	4	-	-	12	-	-	-	2	-	-	15	-	-	-	-	
Pleasant Ridge	7	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	1	-	-	-	1	-	-	-	3	-	-	-	-	
Pontiac	127	1	8	7	7	1	2	11	2	2	7	2	1	4	5	6	4	-	-	24	-	-	-	7	-	-	81	-	-	-	-	
Rochester	9	-	-	-	-	-	1	1	-	-	-	-	-	4	1	1	-	-	1	-	-	-	1	-	-	-	10	-	-	-	-	
Royal Oak	126	2	3	11	19	2	17	8	3	7	4	4	3	39	5	5	7	-	-	13	-	-	-	4	-	-	44	-	-	-	-	
Southfield	48	1	2	8	3	1	6	5	1	2	1	1	1	15	3	1	1	-	-	6	-	-	-	1	-	-	17	-	-	-	-	
Troy	30	-	4	3	-	-	8	2	1	-	-	-	-	7	1	4	1	-	-	1	-	-	-	-	-	-	10	-	-	-	-	
Walled Lake	8	-	-	-	-	-	1	-	-	-	-	-	-	3	1	1	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	
Balance of County	229	5	3	11	29	8	38	22	9	2	13	5	6	54	8	16	7	-	-	36	-	-	-	14	-	-	134	-	-	-	-	
OCEANA	30	-	2	5	-	-	7	2	1	1	1	-	-	10	-	1	-	-	1	-	5	-	-	-	-	-	44	-	-	-	-	
OCENA	24	1	-	6	2	-	3	2	1	1	-	-	-	5	-	1	-	-	4	-	4	-	-	-	-	23	-	-	-	-	-	
ONTONAGON	29	-	3	2	-	-	2	2	2	2	1	1	1	10	4	1	-	-	6	-	6	-	-	-	-	11	-	-	-	-	-	
OSCEOLA	21	-	2	2	-	-	6	1	-	1	1	-	-	5	1	2	1	-	8	-	8	-	-	-	-	19	-	-	-	-	-	
OSCODA	9	-	1	2	1	-	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	
OTSEGO	16	-	2	1	2	1	3	1	1	-	3	1	-	2	-	-	-	-	4	-	4	-	-	-	-	12	-	-	-	-	-	
Gaylord	3	-	-	1	1	-	2	1	1	-	1	-	-	1	-	-	-	-	2	-	2	-	-	-	-	6	-	-	-	-	-	
Balance of County	13	-	2	1	-	-	1	1	1	-	3	1	-	2	-	-	-	-	2	-	2	-	-	-	-	6	-	-	-	-	-	
OTTAWA	133	1	3	9	14	7	14	17	2	4	6	3	-	38	7	8	2	-	-	26	-	-	-	2	-	-	97	-	-	-	-	
Grand Haven	23	-	2	4	2	-	2	4	-	1	-	-	-	3	2	3	2	-	-	6	-	-	-	1	-	-	20	-	-	-	-	
Holland Pt.	32	-	2	4	5	-	4	3	-	1	-	-	-	9	1	1	1	-	-	6	-	-	-	1	-	-	22	-	-	-	-	
Hudsonville	3	-	-	1	-	-	1	-	-	-	-	-	-	1	1	1	-	-	3	-	3	-	-	-	-	6	-	-	-	-	-	
Zeeland	4	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	-	-	6	-	-	-	-	-	
Balance of County	71	1	5	5	-	-	8	9	2	3	5	2	-	24	2	4	1	-	-	14	-	-	-	1	-	-	47	-	-	-	-	
PRESQUE ISLE	24	-	3	2	2	2	2	1	-	-	2	-	-	9	1	2	-	-	9	-	9	-	-	-	-	11	-	-	-	-	-	
Rogers City	8	-	1	2	1	-	1	1	-	-	1	-	-	2	-	1	-	-	6	-	6	-	-	-	-	11	-	-	-	-	-	
Balance of County	16	-	2	1	-	-	1	1	-	-	1	-	-	7	1	2	-	-	3	-	3	-	-	-	-	10	-	-	-	-	-	
ROSCOMMON	15	-	-	-	1	-	2	1	-	1	3	-	-	6	1	-	-	-	1	-	1	-	-	-	-	12	-	-	-	-	-	
SAGINAW	289	4	1	19	30	10	53	20	5	8	17	1	-	90	13	16	6	-	-	33	-	-	-	9	-	-	187	-	-	-	-	
Chesaning	4	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	2	-	-	4	-	-	-	-	
Saginaw	164	4	1	12	22	5	29	12	4	4	9	-	-	49	5	7	3	-	-	15	-	-	-	6	-	-	128	-	-	-	-	
Balance of County	121	-	7	8	5	-	24	8	1	4	7	1	-	40	7	9	3	-	-	18	-	-	-	3	-	-	55	-	-	-	-	
ST. CLAIR	191	1	5	14	22	4	28	24	5	4	13	2	3	46	8	10	-	-	49	-	49	-	-	13	-	-	124	-	-	-	-	
Algonac	7	-	-	-	-	-	1	1	2	-	-	-	-	2	-	-	-	-	2	-	2	-	-	-	-	6	-	-	-	-	-	
Marine City	7	-	-	-	-	-	1	1	2	-	-	-	-	3	-	-	-	-	2	-	2	-	-	-	-	7	-	-	-	-	-	
Marysville	5	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	2	-	-	-	-	-	
New Baltimore Pt.	1	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	2	-	-	-	-	-	
New Hudson	73	1	1	8	11	3	10	6	1	2	5	2	1	18	1	3	-	-	16	-	16	-	-	8	-	-	45	-	-	-	-	
St. Clair	8	-	-	-	-	-	1	1	1	1	1	-	-	4	1	1	-	-	1	-	2	-	-	-	-	9	-	-	-	-	-	
Balance of County	90	-	6	9	-	-	14	13	4	-	6	-	2	18	5	7	1	-	29	-	29	-	-	4	-	-	53	-	-	-	-	





TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	HEART DISEASE										PNEUMONIA										A103 Intestinal obstruction & hernia													
	A 77 Otitis media & mastoiditis	A 78 All other diseases of nervous system & sense organs	Total	A 79 Rheumatic fever	A 80 Chronic rheumatic heart disease	A 81 Arteriosclerotic & degenerative heart disease	A 82 Arteriosclerotic heart disease	A 83 Hypertension with heart disease	A 84 Hypertension without mention of heart	A 85 Diseases of arteries	A 86 Other diseases of circulatory system	A 87 Acute upper respiratory infections	A 88 Influenza	Total	A 89 Lobar pneumonia	A 90 Bronchopneumonia	A 91 Primary atypical, other & unspecified pneumonia	A 92 Acute bronchitis	A 93 Chronic & unqualified bronchitis	A 94 Hypertrophy of tonsils & adenoids		A 95 Empyema & abscess of lung	A 96 Pleurisy	A 97 All other respiratory diseases	A 98 Diseases of teeth & supporting structures	A 99 Ulcer of stomach	A100 Ulcer of duodenum	A101 Gastritis & duodenitis	A102 Appendicitis					
STATE	8	359	27,483	21	791	23,689	22,225	1,454	908	2,074	540	2,291	1,652	639	305	41	234	1,995	350	860	785	50	169	8	23	8	1,139	2	314	280	13	89	407	
ALCONA	-	1	21	-	-	-	20	-	1	-	2	2	1	1	-	-	1	5	-	4	1	-	1	-	-	-	-	-	-	-	-	-		
ALGER	-	-	36	-	-	33	31	-	2	-	-	7	5	2	-	-	1	7	-	4	2	-	1	-	-	-	-	-	-	-	-	-		
Balance of County	-	-	25	-	-	22	21	1	2	-	-	7	5	2	-	-	1	6	-	4	2	-	1	-	-	-	-	-	-	-	-	-		
ALLEGAN	-	2	228	1	4	189	183	6	13	21	7	20	14	6	1	1	1	15	3	7	5	-	10	-	5	2	-	-	-	-	-	-		
Allegan	-	-	32	1	-	24	24	-	3	4	2	5	2	3	-	-	-	1	-	1	-	2	-	1	-	-	-	-	-	-	-	-		
Holland Pt.	-	-	5	-	-	4	4	-	1	1	1	1	1	1	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	
Oscego	-	1	13	-	-	10	10	-	1	2	-	2	2	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	
Plainwell	-	16	16	-	-	16	14	-	1	1	-	1	1	-	-	-	-	1	-	1	-	7	-	1	-	-	-	-	-	-	-	-	-	
Balance of County	-	1	162	-	3	137	131	6	8	14	5	12	9	3	1	1	-	12	3	5	4	-	7	-	3	2	-	-	-	-	-	-	-	
ALPENA	-	126	126	6	110	105	5	3	7	4	4	11	6	5	-	-	-	7	1	4	2	-	3	-	2	-	-	-	-	-	-	-	-	
Alpena	-	77	77	3	68	67	1	2	4	2	4	8	6	2	-	-	-	4	1	2	-	3	-	2	-	-	-	-	-	-	-	-	-	
Balance of County	-	49	49	3	42	38	4	1	3	2	3	3	3	-	-	-	-	3	1	3	-	3	-	2	-	-	-	-	-	-	-	-	-	
ANTRIM	-	52	52	-	46	43	3	1	5	1	9	7	2	-	-	-	-	1	6	5	1	-	3	-	1	-	-	-	-	-	-	-	-	
AREMOC	1	-	49	-	2	44	43	1	-	3	-	4	2	2	1	-	-	1	6	1	2	3	-	1	-	-	-	-	-	-	-	-	-	
BARAGA	-	79	79	-	28	25	3	-	1	2	7	4	3	1	-	-	-	7	1	3	3	-	-	-	-	-	-	-	-	-	-	-	-	
BARRE	1	108	108	2	92	87	5	6	8	4	4	15	11	4	2	-	-	6	7	2	1	4	-	-	-	-	-	-	-	-	-	-	-	
Barre	-	30	30	-	26	26	5	1	3	-	4	2	2	2	-	-	-	1	2	1	1	4	-	-	-	-	-	-	-	-	-	-	-	
Balance of County	-	78	78	-	66	61	5	5	5	4	4	11	9	2	2	-	-	5	5	1	1	3	-	-	-	-	-	-	-	-	-	-	-	
BAY	-	6	369	1	7	324	301	23	11	26	6	18	12	6	5	-	-	1	29	7	9	13	1	3	-	1	-	-	-	-	-	-	-	
Ray City	-	3	231	-	5	201	180	21	7	18	4	8	5	3	3	-	-	1	17	5	6	6	1	2	-	1	-	-	-	-	-	-	-	
Essexville	-	16	16	-	14	14	-	-	1	1	1	2	2	-	-	-	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	
Balance of County	-	3	122	-	2	109	107	2	3	8	1	8	5	3	2	-	-	11	2	3	6	-	1	-	-	-	-	-	-	-	-	-	-	
RENZIE	-	1	41	-	1	38	34	4	1	1	3	3	2	1	4	-	-	6	-	4	2	-	2	-	1	-	-	-	-	-	-	-	-	
BERRIEN	10	523	523	22	451	427	24	16	33	9	61	50	11	8	2	7	42	6	26	10	2	6	-	2	6	-	-	-	-	-	-	-	-	
Benton Harbor	-	1	80	-	2	67	66	1	3	8	1	12	8	4	3	-	-	1	9	-	6	3	1	1	1	1	-	-	-	-	-	-	-	-
Ruchanan	-	20	20	-	18	17	1	2	2	1	1	1	1	1	-	-	-	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
Niles	3	69	69	-	58	53	5	5	4	3	8	7	1	1	-	-	-	2	5	1	2	2	1	1	1	1	-	-	-	-	-	-	-	-
St. Joseph	-	43	43	-	41	41	-	-	4	3	6	5	1	1	-	-	-	2	1	2	2	1	1	1	1	1	-	-	-	-	-	-	-	-
Balance of County	-	5	311	1	16	267	250	17	6	21	5	34	29	5	5	2	2	26	4	17	5	4	-	2	2	2	2	2	2	2	2	2	2	2
BRANCH	-	3	154	1	143	133	10	10	4	5	4	16	11	5	2	-	-	10	-	5	5	-	5	-	3	-	-	-	-	-	-	-	-	
Coldwater	-	46	46	-	44	43	1	1	1	1	1	4	1	3	2	-	-	4	-	2	2	-	2	-	2	-	-	-	-	-	-	-	-	
Balance of County	-	3	108	1	99	90	9	9	3	4	3	12	10	2	2	-	-	6	-	3	3	-	6	-	2	-	-	-	-	-	-	-	-	
CALHOUN	-	6	457	2	395	364	31	18	30	13	70	59	11	9	9	-	-	56	11	30	15	1	-	2	8	-	-	-	-	-	-	-	-	
Albion	-	35	35	1	29	25	4	4	4	1	4	4	4	1	1	-	-	2	2	2	3	-	1	2	10	1	4	5	5	5	5	5	5	
Battle Creek	-	2	211	-	7	179	169	10	14	11	6	27	19	8	5	-	-	1	36	7	20	9	-	1	3	4	-	-	-	-	-	-	-	-
Marshall	-	1	24	-	22	20	2	2	1	1	2	5	5	1	1	-	-	1	1	1	1	-	1	1	1	1	-	-	-	-	-	-	-	-
Springfield	-	28	28	-	6	6	-	-	1	1	1	1	1	-	-	-	-	1	1	1	1	-	1	1	1	1	-	-	-	-	-	-	-	-
Balance of County	-	3	179	1	159	144	15	2	13	4	33	30	3	2	2	-	-	1	14	2	9	3	-	1	4	-	-	-	-	-	-	-	-	-
CASS	-	2	152	-	136	124	12	12	5	10	3	13	9	4	1	-	-	2	10	1	4	5	-	5	-	3	-	-	-	-	-	-	-	-
Bozjagac	-	32	32	-	30	26	4	4	1	1	1	4	3	1	1	-	-	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-	
Balance of County	-	1	120	-	106	98	8	8	4	9	2	9	6	3	1	-	-	2	8	1	3	4	-	4	-	4	-	-	-	-	-	-	-	-
CHARLEVOIX	-	2	78	-	69	59	10	10	2	5	1	6	4	2	2	-	-	7	2	3	2	1	4	-	4	-	-	-	-	-	-	-	-	-
Bozjagac	-	17	17	-	15	12	3	3	1	1	1	2	1	1	1	-	-	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
Charlevoix	-	11	11	-	9	8	-	-	1	2	-	4	3	1	1	-	-	5	1	2	2	-	3	-	3	-	-	-	-	-	-	-	-	-
Balance of County	-	2	50	-	45	39	6	6	1	2	-	4	3	1	1	-	-	5	1	2	2	-	1	-	1	-	-	-	-	-	-	-	-	-
CHEBOYGAN	-	73	73	-	57	54	3	3	5	9	-	10	9	1	1	-	-	10	9	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
Cheboygan	-	28	28	-	19	17	2	2	4	5	-	3	3	1	1	-	-	3	3	3	3	-	1	-	1	-	-	-	-	-	-	-	-	-
Balance of County	-	45	45	-	38	37	1	1	1	4	-	7	6	1	1	-	-	7	6	1														









TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	NEPHRITIS & NEPHROSIS										MATERNAL DEATHS								CONGENITAL MALFORMATIONS																
	A104 Gastro-enteritis & colitis, except diarrhea of newborn	A105 Cirrhosis of liver	A106 Cholelithiasis & cholecystitis	A107 Other diseases of digestive system	Total	A108 Acute nephritis	A109 Chronic, other nephritis	A109 Chronic, other nephritis & unspecified nephritis	A109 Chronic, other nephritis with edema, including nephroses	A109 Chronic, other nephritis & unspecified nephritis & other renal scleroses	A110 Infections of kidney	A111 Calculi of urinary system	A112 Hypertasia of prostate	A113 Other diseases of genito-urinary system	Total	A115 Sepsis of pregnancy, chills, chills	A116 Toxemia of pregnancy & puerperium	A117 Hemorrhage of pregnancy & chills	A118 Abortion without mention of toxemia	A119 Abortion with sepsis	A120 Other complications of pregnancy, chills, chills	A121 Infections of skin & subcutaneous tissue	A122 Arthritis & spondylitis	A123 Muscular rheumatism & rheumatism unspecified	A124 Osteomyelitis & periostitis	A125 Ankylosis & acquired musculoskeletal deformities	A126 All other diseases of skin & musculoskeletal system	Total	A127 Spina bifida & meningocele	A128 Congenital malformations of circulatory system	A129 All other congenital malformations				
CHIPPEWA	1	5	3	1	1	1	1	1	1	1	1	3	1	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Sault Ste. Marie	1	2	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Balance of County	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
CLARE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
CLINTON	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
St. Johns	3	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Balance of County	3	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
CRAWFORD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
DELTA	2	5	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
Escanaba	2	3	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Gladstone	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
DICKINSON	1	4	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Iron Mountain	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Kingsford	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Norway	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
EATON	3	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Charlotte	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Eaton Rapids	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Grand Ledge	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
EMMET	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Petoskey	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GENESEE	15	46	17	26	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Davidson	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ironton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Flushing	9	33	8	18	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Mount Morris	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Swartz Creek	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	5	9	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
GLADWIN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GOGHEIC	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Bessemer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ironwood	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Wakefield	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GRAND TRAVERSE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Traverse City	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GRATIOT	1	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Alma	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Ithaca	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
St. Louis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
HILLSDALE	2	2	2																																











TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	A 130 Birth injuries	A 131 Postnatal asphyxia & atelectasis	A 132 Infections of newborn	A 133 Hemolytic disease of newborn	A 134 All other defined diseases of early infancy	A 135 Ill-defined diseases peculiar to early infancy & immaturity unqualified	A 136 Sentility without mention of psychosomatic immaturity 774-776	A 137 Ill-defined & unknown causes of mortality	ACCIDENTS										A 149 Homicide & injury by other persons (not in war)	A 150 Injury resulting from operations of war			
									AI138 Motor vehicle accidents	AI139 Other transport accidents	AI140 Accidental poisoning	AI141 Accidental falls	AI142 Accident caused by machinery	AI143 Accident caused by fire & explosion of combustible material	AI144 Accident caused by hot substance, steam & radiation	AI145 Accident caused by firearm	AI146 Accidental drowning & submersion	AI147 All other accidental causes			AI148 Suicide & self-inflicted injury		
STATE	475	739	122	93	58	1,148	816	162	4,033	2,005	142	133	818	69	269	20	41	166	370	855	294	3	
ALCONA	-	1	-	-	-	-	-	-	7	6	-	-	1	-	-	-	-	-	-	-	-	-	-
ALGER	-	-	-	-	-	1	1	1	13	7	-	-	1	1	2	-	1	-	1	1	1	1	-
Municipal	-	-	-	-	-	1	1	1	12	6	-	-	1	1	2	-	1	-	1	1	1	1	-
Balance of County	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALLEGAN	3	4	1	-	1	6	4	7	40	17	2	1	10	1	4	-	-	2	3	5	-	-	-
Allegan	-	-	-	-	-	1	1	1	6	3	-	-	1	1	1	-	-	-	-	-	-	-	-
Holland Pt.	-	-	-	-	-	1	1	1	4	1	-	-	1	1	1	-	-	-	-	-	-	-	-
Oscego	-	-	-	-	-	1	1	1	4	1	-	-	3	-	-	-	-	-	-	-	-	-	-
Flintwell	-	-	-	-	-	1	1	1	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-
Balance of County	2	3	1	-	1	3	2	3	27	12	1	-	6	1	4	-	-	2	1	3	-	-	-
ALPENA	4	3	-	-	1	4	4	-	10	4	-	-	2	1	1	1	-	2	2	3	-	-	-
Alpena	1	3	-	-	1	2	2	-	7	3	-	-	2	1	1	1	-	1	1	1	-	-	-
Balance of County	3	-	-	-	-	2	2	-	3	1	-	-	-	1	-	-	-	1	1	2	-	-	-
ANTRIM	-	2	-	-	-	1	1	-	12	7	1	1	2	-	1	-	-	-	-	-	1	1	-
ARENAC	2	-	-	-	-	-	-	-	8	4	1	-	3	-	-	-	-	-	-	-	2	-	-
BARAGA	2	-	-	-	1	-	-	-	5	1	-	-	-	-	1	-	-	1	2	1	2	-	-
BARRY	-	2	-	-	1	6	2	-	21	10	1	1	4	1	1	1	1	-	3	7	2	-	-
Hastings	-	-	-	-	-	3	1	-	18	9	-	-	4	1	1	1	-	-	3	5	2	-	-
Balance of County	-	2	-	-	1	3	1	-	13	1	-	-	-	-	-	-	-	-	-	2	3	-	-
BAY	2	8	1	2	-	15	7	1	63	40	4	2	6	2	2	-	-	1	6	8	1	-	-
Bay City	1	3	-	-	-	8	3	1	32	18	2	2	4	1	2	-	-	1	3	4	1	-	-
Essexville	-	-	-	-	-	7	4	-	2	1	-	-	-	-	-	-	-	-	-	4	1	-	-
Balance of County	1	5	1	2	-	7	2	-	29	21	2	-	2	1	-	-	-	-	3	4	1	-	-
BENZIE	1	-	-	-	-	-	-	-	6	2	-	-	3	-	1	-	-	-	-	1	2	-	-
BERRIEN	4	7	6	3	2	24	6	2	89	41	6	5	15	5	8	-	-	4	5	17	4	-	-
Benton Harbor	1	1	1	1	-	5	3	-	18	3	-	2	5	1	3	-	-	1	1	2	1	-	-
Buchanan	-	-	-	-	-	2	2	-	5	2	-	-	-	-	-	-	-	-	-	2	1	-	-
Niles	-	-	2	2	-	2	2	-	5	3	3	1	2	-	-	-	-	-	-	1	1	-	-
St. Joseph	-	-	-	-	-	15	6	2	54	26	3	2	8	4	5	-	-	3	3	11	3	-	-
Balance of County	3	6	3	3	2	15	9	-	32	14	-	-	13	2	2	-	-	-	1	2	1	-	-
BRANCH	1	3	-	-	-	2	1	-	4	1	-	-	-	-	-	-	-	-	-	2	1	-	-
Coldwater	-	-	-	-	-	1	1	-	28	13	-	-	11	2	1	-	-	-	1	2	1	-	-
Balance of County	1	2	-	-	-	1	1	-	2	1	-	-	-	-	-	-	-	-	-	1	2	-	-
CALHOUN	3	20	4	4	2	12	3	3	84	43	2	1	14	1	5	1	-	3	14	10	2	-	-
Albion	4	4	-	-	-	6	3	-	6	3	-	-	8	1	2	-	-	2	7	2	2	-	-
Battle Creek	1	2	2	2	1	3	1	1	32	11	1	1	8	-	1	-	-	1	1	1	1	-	-
Marshall	-	-	-	-	-	1	1	-	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Springfield	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	2	14	2	2	1	7	2	2	39	26	1	-	3	1	2	1	-	-	5	7	2	-	-
CASS	2	2	1	1	1	6	1	1	22	11	2	-	3	-	2	-	-	-	4	7	1	-	-
Dowagiac	1	1	1	1	-	2	1	-	2	1	1	-	3	-	1	-	-	-	1	1	1	-	-
Balance of County	1	1	-	-	-	4	1	1	20	11	2	-	3	-	1	-	-	-	3	7	1	-	-
CHARLEVOIX	1	-	-	-	-	-	-	-	11	8	-	-	2	-	-	-	-	-	1	3	3	-	-
Boyer City	-	-	-	-	-	3	1	-	3	1	-	-	2	-	-	-	-	-	1	1	1	-	-
Charlevoix	-	-	-	-	-	5	4	-	5	4	-	-	3	-	-	-	-	-	1	1	1	-	-
Balance of County	1	-	-	-	-	3	3	-	3	3	-	-	-	-	-	-	-	-	1	2	2	-	-
CHEBOYGAN	1	-	-	-	-	6	1	-	10	3	-	-	2	-	2	-	-	-	3	2	2	-	-
Cheboygan	-	-	-	-	-	4	1	-	5	2	-	-	1	-	1	-	-	-	1	1	1	-	-
Balance of County	1	-	-	-	-	2	2	-	5	1	-	-	1	-	1	-	-	-	2	2	2	-	-











TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	ACCIDENTS										Total	A 137 Ill-defined & unknown causes of mortality	A 136 Sentilly without 774-776 immaturity	A 135 Ill-defined diseases unqualified	A 134 All other defined diseases of early infancy	A 133 Hemolytic disease of newborn	A 132 Infections of newborn	A 131 Postnatal asphyxia & atelectasis	A 130 Birth injuries	
	AE138 Motor vehicle accidents	AE139 Other transport accidents	AE140 Accidental poisoning	AE141 Accidental falls	AE142 Accident caused by machinery	AE143 Accident caused by fire & explosion of material	AE144 Accident caused by hot substance, steam & radiation	AE145 Accident caused by firearm	AE146 Accidental drowning & submersion	AE147 All other accidental causes										AE148 Suicide & self-inflicted injury
ST. JOSEPH	13	1	1	4	1	1	1	1	2	4	5	1	1	26	1	3	4	1	1	1
Sturgis	4	1	1	4	1	1	1	1	1	1	1	1	1	8	1	1	1	1	1	1
Three Rivers	2	1	1	2	1	1	1	1	1	1	1	1	1	5	1	1	1	1	1	1
Balance of County	7	1	1	1	1	1	1	1	1	1	1	1	1	13	1	1	1	1	1	1
SANILAC	12	1	1	4	1	2	1	1	2	5	5	1	1	28	1	8	1	1	1	1
SCHOOLCRAFT	2	2	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1	1	1	1
Manistique	2	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
Balance of County	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
SHLAWASSEE	15	1	1	14	2	1	1	1	1	1	1	1	1	34	1	5	1	1	1	1
Corunna	3	1	1	3	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
Durand	1	1	1	7	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Owosso	6	1	1	4	1	1	1	1	1	1	1	1	1	14	1	1	1	1	1	1
Balance of County	8	1	1	7	1	1	1	1	1	1	1	1	1	15	1	1	1	1	1	1
TUSCOLA	20	1	1	4	2	3	1	1	1	1	1	1	1	34	1	7	1	1	1	1
Varo	4	1	1	4	2	3	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Vassar	4	1	1	4	2	3	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Balance of County	15	1	1	4	2	3	1	1	1	1	1	1	1	29	1	1	1	1	1	1
VAN BUREN	23	1	2	7	1	1	1	1	1	1	1	1	1	40	1	8	1	1	1	1
Paa Paw	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
South Haven	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Balance of County	16	1	1	6	1	1	1	1	1	1	1	1	1	31	1	1	1	1	1	1
WASHTENAW	36	3	2	16	3	5	1	1	1	1	1	1	1	75	1	3	2	1	1	1
Ann Arbor	10	1	1	1	1	1	1	1	1	1	1	1	1	20	1	1	1	1	1	1
Chelsea	7	1	1	2	1	1	1	1	1	1	1	1	1	7	1	1	1	1	1	1
Milan Pt.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ypsilanti	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Balance of County	6	1	1	1	1	1	1	1	1	1	1	1	1	6	1	1	1	1	1	1
WAYNE	497	28	39	301	11	86	7	4	45	88	299	161	1	1,106	4	28	18	30	40	263
Allen Park	6	2	2	6	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Dearborn	22	2	2	10	1	1	1	1	1	1	1	1	1	41	1	1	1	1	1	1
Detroit	272	13	33	227	5	71	5	3	29	60	196	133	1	718	4	22	17	17	34	147
Ecorse	8	1	1	2	1	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1
Flat Rock	3	1	1	2	1	1	1	1	1	1	1	1	1	9	1	1	1	1	1	1
Garden City	3	1	1	3	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
Grosse Pointe	11	1	1	1	1	1	1	1	1	1	1	1	1	18	1	1	1	1	1	1
Grosse Pointe, Farms	2	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Grosse Pointe, Park	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Grosse Pointe, Woods	5	1	1	1	1	1	1	1	1	1	1	1	1	10	1	1	1	1	1	1
Hamtramck	2	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Harper Woods	5	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1	1	1	1
Highland Park	14	1	1	5	1	1	1	1	1	1	1	1	1	14	1	1	1	1	1	1
Inkster	6	1	1	1	1	1	1	1	1	1	1	1	1	6	1	1	1	1	1	1
Lincoln Park	13	1	1	6	1	1	1	1	1	1	1	1	1	13	1	1	1	1	1	1
Lyons	16	1	1	1	1	1	1	1	1	1	1	1	1	16	1	1	1	1	1	1
Meriville	17	1	1	2	2	1	1	1	1	1	1	1	1	17	1	1	1	1	1	1
Metiville	10	1	1	6	1	1	1	1	1	1	1	1	1	10	1	1	1	1	1	1
Northville Pt.	4	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Plymouth	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
River Rouge	4	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Riverview	9	1	1	1	1	1	1	1	1	1	1	1	1	9	1	1	1	1	1	1
Southgate	7	1	1	3	1	1	1	1	1	1	1	1	1	7	1	1	1	1	1	1
Trenton	11	1	1	2	1	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1
Wayne	14	1	1	1	1	1	1	1	1	1	1	1	1	14	1	1	1	1	1	1
Wyandotte	8	1	1	3	1	1	1	1	1	1	1	1	1	8	1	1	1	1	1	1
Balance of County	75	4	4	14	1	7	1	1	6	9	26	5	2	117	2	36	9	5	4	34
WEXFORD	11	1	1	4	1	1	1	1	1	1	1	1	1	21	1	6	2	4	1	1
Cadillac	3	1	1	4	1	1	1	1	1	1	1	1	1	3	1	3	1	2	1	1
Balance of County	11	1	1	4	1	1	1	1	1	1	1	1	1	11	1	3	1	2	1	1

TABLE 9 - LIVE BIRTHS, DEATHS, FETAL DEATHS, MARRIAGES, DIVORCES, AND RATES BY COUNTY: POPULATION MICHIGAN, 1963

(Deaths exclusive of fetal deaths. Births and deaths by county of occurrence and residence. Fetal deaths by county of residence. Marriages by county of license. Divorces by county of decree. Birth rates, death rates, rates of persons married, and rates of persons divorced per 1,000 population. Fetal death ratios per 1,000 live births.)

AREA	POPULATION ESTIMATES July 1, 1963	L I V E B I R T H S				D E A T H S				FETAL DEATHS		MARRIAGES		DIVORCES*	
		Occurrence Number	Residence Rate	Number	Rate	Occurrence Number	Residence Rate	Number	Rate	Residence Number	Ratio	Number	Rate Persons Married	Number	Rate Persons Divorced
STATE	8,030,000	177,616	22.1	178,871	22.3	71,856	8.9	72,438	9.0	2,540	14.2	68,160	17.0	17,479	4.4
Alcona	6,100	38	6.2	125	20.5	30	4.9	73	12.0	-	0	56	18.4	9	3.0
Alger	8,900	149	16.7	174	19.6	81	9.1	118	13.3	5	28.7	57	12.8	12	3.2
Allegan	56,900	888	15.6	1,271	22.3	475	8.3	596	10.5	17	13.4	465	16.3	100	3.5
Alpena	28,900	841	29.1	740	25.6	326	11.3	289	10.0	7	9.5	193	13.4	33	2.3
Antrim	10,400	87	8.4	190	18.3	113	10.9	147	14.1	4	21.1	82	15.8	15	2.9
Arenac	9,500	68	7.2	181	19.1	111	11.7	137	14.4	4	22.1	96	20.2	7	1.5
Baraga	7,400	213	28.8	177	23.9	96	13.0	92	12.4	3	16.9	58	15.7	12	3.2
Barry	28,800	552	19.2	743	25.8	264	9.2	315	10.9	5	6.7	273	19.0	76	5.3
Bay	106,000	2,587	24.4	2,470	23.3	996	9.4	992	9.4	39	15.8	930	17.5	172	3.2
Benzie	8,000	139	17.4	153	19.1	107	13.4	117	14.6	3	19.6	75	18.8	10	2.5
Berrien	154,100	3,570	23.2	3,550	23.0	1,413	9.2	1,493	9.7	60	16.9	1,986	25.8	374	4.9
Branch	34,700	671	19.3	642	18.5	402	11.6	368	10.6	9	14.0	460	26.5	52	3.0
Calhoun	137,300	3,336	24.3	3,046	22.2	1,407	10.2	1,306	9.5	50	16.4	1,218	17.7	427	6.2
Cass	37,200	286	7.7	688	18.5	274	7.4	396	10.6	14	20.3	358	19.2	89	4.8
Charlevoix	14,000	204	14.6	333	23.8	157	11.2	199	14.2	6	18.0	142	20.3	25	3.6
Cheboygan	13,800	258	18.7	318	23.0	147	10.7	177	12.8	7	22.0	114	16.5	29	4.2
Chippewa	35,800	1,156	32.3	1,169	32.7	297	8.3	335	9.4	7	6.0	343	19.2	65	3.6
Clare	12,100	341	28.2	273	22.6	156	12.9	158	13.1	4	14.7	115	19.0	25	4.1
Clinton	41,900	401	9.6	1,014	24.2	255	6.1	363	8.7	9	8.9	290	13.8	51	2.4
Crawford	5,200	203	39.0	107	20.6	99	19.0	66	12.7	2	18.7	41	15.8	15	5.8
Delta	33,800	792	23.4	758	22.4	315	9.3	345	10.2	9	11.9	265	15.7	46	2.7
Dickinson	24,300	689	28.4	470	19.3	426	17.5	305	12.6	5	10.6	223	18.4	44	3.6
Eaton	52,200	665	12.7	1,177	22.5	345	6.6	489	9.4	11	9.3	394	15.1	115	4.4
Emmet	16,100	571	35.5	337	20.9	254	15.8	188	11.7	6	17.8	160	19.9	27	3.4
Genesee	401,700	10,184	25.4	10,038	25.0	2,970	7.4	3,025	7.5	151	15.0	3,638	18.1	1,149	5.7
Gladwin	10,200	60	5.9	206	20.2	103	10.1	121	11.9	5	24.3	92	18.0	16	3.1
Gogebic	22,000	438	19.9	326	14.8	343	15.6	337	15.3	9	27.6	244	22.2	22	2.0
Grand Traverse	35,300	1,054	29.9	717	20.3	363	18.8	346	9.8	13	18.1	277	15.7	85	4.8
Gratiot	37,500	771	20.6	927	24.7	472	12.6	432	11.5	12	12.9	343	18.3	60	3.2
Hillsdale	33,800	407	12.0	679	20.1	267	7.9	372	11.0	11	16.2	359	21.2	77	4.6
Houghton	34,900	691	19.8	661	18.9	509	14.6	512	14.7	11	16.6	231	13.2	48	2.8
Huron	34,500	728	21.1	763	22.1	388	11.2	424	12.3	9	11.8	244	14.1	35	2.0
Ingham	222,700	6,436	28.9	5,401	24.3	1,772	8.0	1,693	7.6	52	9.6	2,291	20.6	680	6.1
Ionia	43,600	515	11.8	895	20.5	344	7.9	433	9.9	10	11.2	368	16.9	70	3.2
Iosco	20,700	820	39.6	792	38.3	162	7.8	173	8.4	9	11.4	176	17.0	41	4.0
Iron	15,900	250	15.7	250	15.7	222	14.0	255	16.0	-	0	112	14.1	10	1.3
Isabella	35,200	718	20.4	792	22.5	254	7.2	258	7.3	14	17.7	353	20.1	51	2.9
Jackson	133,900	3,033	22.7	2,930	21.9	1,184	8.8	1,250	9.3	35	11.9	1,122	16.8	419	6.3
Kalamazoo	174,600	3,803	21.8	3,794	21.7	1,699	9.7	1,492	8.5	57	15.0	1,520	17.4	477	5.5
Kalkaska	4,400	72	16.4	80	18.2	60	13.6	70	15.9	2	25.0	44	20.0	10	4.5
Kent	378,200	9,846	26.0	9,035	23.9	3,694	9.8	3,457	9.1	97	10.7	3,274	17.3	825	4.4
Keweenaw	2,500	-	0	31	12.4	15	6.0	47	18.8	2	64.5	18	14.4	2	1.6
Lake	5,200	1	0.2	91	17.5	42	8.1	108	20.8	3	33.0	8	3.1	8	3.1
Lapeer	43,400	869	20.0	924	21.3	341	7.9	368	8.5	9	9.7	409	18.8	86	4.0
Leelanau	9,400	36	3.8	192	20.4	51	5.4	102	10.9	2	10.4	53	11.3	15	3.2
Lenawee	75,700	1,815	24.0	1,590	21.0	730	9.6	761	10.1	28	17.6	763	20.2	165	4.4
Livingston	39,600	731	18.5	947	23.9	324	8.2	383	9.7	11	11.6	302	15.3	110	5.6
Luce	7,200	117	16.2	110	15.3	193	26.8	69	9.6	1	9.1	55	15.3	7	1.9
Mackinac	10,600	200	18.9	244	23.0	76	7.2	107	10.1	2	8.2	69	13.0	19	3.6
Macomb	477,200	5,220	10.9	12,855	26.9	1,918	4.0	2,653	5.6	164	12.8	2,783	11.7	786	3.3
Manistee	19,200	428	22.3	436	22.7	234	12.2	270	14.1	11	25.2	136	14.2	33	3.4
Marquette	61,400	1,593	25.9	1,575	25.7	586	9.5	581	9.5	20	12.7	432	14.1	74	2.4
Mason	21,700	384	17.7	403	18.6	225	10.4	242	11.2	8	19.9	194	17.9	38	3.5
Mecosta	21,800	459	21.1	483	22.2	225	10.3	243	11.1	4	8.3	167	15.3	31	2.8
Hemioninec	24,300	596	24.5	467	19.2	318	13.1	306	12.6	6	12.8	292	24.0	23	1.9
Midland	52,500	1,298	24.7	1,270	24.2	268	5.1	325	6.2	20	15.7	432	16.5	85	3.2
Missaukee	6,400	-	0	119	18.6	22	3.4	99	15.5	4	33.6	56	17.5	6	1.9
Monroe	104,200	1,362	13.1	2,427	23.3	591	5.7	899	8.6	33	13.6	2,307	44.3	158	3.0
Montcalm	37,200	1,468	39.5	795	21.4	395	10.6	391	10.5	10	12.6	335	18.0	71	3.8
Montmorency	4,200	12	2.9	72	17.1	18	4.3	63	15.0	1	13.9	34	16.2	5	2.4
Muskegon	152,700	3,513	23.0	3,697	24.2	1,191	7.8	1,268	8.3	68	18.4	1,344	17.6	351	4.6
Newaygo	24,700	568	23.0	510	20.6	301	12.2	296	12.0	6	11.8	213	17.2	52	4.2
Oakland	724,900	10,304	14.2	15,796	21.8	3,936	5.4	4,706	6.5	182	11.5	5,213	14.4	1,752	4.8
Oceana	16,600	481	29.0	385	23.2	191	11.5	218	13.1	1	2.6	121	14.6	29	3.5
Ogemaw	9,200	362	39.3	202	22.0	160	17.4	126	13.7	6	29.7	107	23.3	19	4.1
Ontonagon	11,100	139	12.5	225	20.3	103	9.3	144	13.0	2	8.9	73	13.2	18	3.2
Osceola	13,500	258	19.1	298	22.1	177	13.1	176	13.0	10	33.6	121	17.9	13	3.6
Oscoda	3,500	26	7.4	77	22.0	31	8.9	45	12.9	2	26.0	33	18.9	6	3.4
Otsego	8,400	187	22.3	183	21.8	89	10.6	82	9.8	-	0	60	14.3	3	0.7
Ottawa	103,600	2,193	21.2	2,501	24.1	733	7.1	802	7.7	31	12.4	741	14.3	117	2.3
Presque Isle	13,000	302	23.2	290	22.3	113	8.7	122	9.4	8	27.6	68	10.5	10	1.5
Roscommon	7,300	2	0.3	127	17.4	54	7.4	102	14.0	2	15.7	59	16.2	13	3.6
Saginaw	196,500	4,978	25.3	4,854	24.7	1,926	9.8	1,749	8.9	65	13.4	1,674	17.0	394	4.0
St. Clair	106,600	2,356	22.1	2,470	23.2	1,076	10.1	1,165	10.9	42	17.0	951	17.8	245	4.6
St. Joseph	42,300	954	22.6	893	21.1	441	10.4	459	10.9	12	13.4	423	20.0	87	4.1
Sanilac	32,900	605	18.4	718	21.8	317	9.6	417	12.7	12	16.7	258	15.7	48	2.9
Schoolicraft	8,400	246	29.3	175	20.8	108	12.9	107	12.7	-	0	71	16.9	7	1.7
Shawassee	55,000	1,364	24.8	1,284	23.3	452	8.2	520	9.5	12	9.3	493	17.9	109	4.0
Tuscola	43,800	587	13.4	986	22.5	426	9.7	477	10.9	16	16.2	346	15.8	62	2.8
Van Buren	50,700	841	16.6	1,045	20.6	467	9.2	617	12.2	19	18.2	394	15.5	128	5.0
Washtenaw	184,300	5,292	28.7	4,209	22.8	2,448	13.3	1,139	6.2	39	9.3	1,749	19.0	466	5.1
Wayne	2,656,200	66,416	25.0	54,140	20.4	26,589	10.0	25,733	9.7	879	16.2	21,544	16.2	5,909	4.4
Wexford	18,600	522	28.1	383	20.6	300	16.1	237	12.7	4	10.4	185	19.9	39	4.2

\* Includes Annulments.

Note: Population Estimates prepared by University of Michigan Population Studies Center.

TABLE 10 - LIVE BIRTHS BY LEGITIMACY AND IMMATURITY, FETAL DEATHS, DEATHS UNDER 1 YEAR BY AGE GROUPS, MATERNAL DEATHS, AND RATES BY COUNTY OF RESIDENCE MICHIGAN, 1963

(Illegitimate and immature birth ratios, fetal death ratios, and death rates under 1 year by age groups per 1,000 live births. Maternal death rates per 10,000 live births.)

AREA	LIVE BIRTHS				FETAL DEATHS		DEATHS					Maternal	
	Total	Illegitimate	Immature*		Number	Ratio	Under 1 Day	Under 1 Week	Under 28 Days	Under 1 Year		Number	Rate
	Number	Number Ratio	Number Ratio		Number	Ratio	Number Rate	Number Rate	Number Rate	Number Rate		Number	Rate
STATE	178,817	8,769 49.0	13,605 76.1		2,540	14.2	1,865 10.4	2,867 16.0	3,109 17.4	4,150 23.2	71	4.0	
Alcona	125	3 24.0	7 56.0		-	0	1 8.0	1 8.0	1 8.0	1 8.0	1	80.0	
Alger	174	10 57.5	5 28.7		5	28.7	1 5.7	1 5.7	1 5.7	4 23.0	-	0	
Allegan	1,271	41 32.3	81 63.7		17	13.4	8 6.3	16 12.6	18 14.2	25 19.7	-	0	
Alpena	740	21 28.4	43 58.1		7	9.5	11 14.9	13 17.6	13 17.6	20 27.0	-	0	
Antrim	190	5 26.3	13 68.4		4	21.1	2 10.5	4 21.1	4 21.1	6 31.6	-	0	
Arenac	181	6 33.1	11 60.8		4	22.1	-	0	2 11.0	2 11.0	3 16.6	-	0
Baraga	177	1 5.6	6 33.9		3	16.9	3 16.9	3 16.9	3 16.9	5 28.2	-	0	
Barry	743	19 25.6	36 48.5		5	6.7	6 8.1	10 13.5	12 16.2	15 20.2	-	0	
Bay	2,470	59 23.9	157 63.6		39	15.8	15 6.1	33 13.4	35 14.2	50 20.2	-	0	
Benzie	153	7 45.8	13 85.0		3	19.6	1 6.5	1 6.5	1 6.5	2 13.1	-	0	
Berrien	3,550	202 56.9	270 76.1		60	16.9	24 6.8	46 13.0	52 14.6	80 22.5	1	2.8	
Branch	642	22 34.3	40 62.3		9	14.0	6 9.3	7 10.9	8 12.5	10 15.6	-	0	
Calhoun	3,046	144 47.3	249 81.7		50	16.4	35 11.5	51 16.7	54 17.7	74 24.3	1	3.3	
Cass	688	18 26.2	44 64.0		14	20.3	9 13.1	12 17.4	16 23.3	17 24.7	-	0	
Charlevoix	333	9 27.0	22 66.1		6	18.0	2 6.0	2 6.0	2 6.0	4 12.0	-	0	
Cheboygan	318	15 47.2	24 75.5		7	22.0	6 18.9	10 31.4	10 31.4	14 44.0	-	0	
Chippewa	1,169	35 29.9	100 85.5		7	6.0	17 14.5	25 21.4	25 21.4	35 29.9	-	0	
Clare	273	14 51.3	21 76.9		4	14.7	1 3.7	3 11.0	3 11.0	5 18.3	1	36.6	
Clinton	1,014	25 24.7	64 63.1		9	8.9	10 9.9	19 18.7	21 20.7	28 27.6	-	0	
Crawford	107	-	0		2	18.7	-	0	3 28.0	4 37.4	-	0	
Delta	758	17 22.4	37 48.8		9	11.9	5 6.6	7 9.2	7 9.2	11 14.5	-	0	
Dickinson	470	12 25.5	30 63.8		5	10.6	6 12.8	10 21.3	10 21.3	12 25.5	-	0	
Eaton	1,177	38 32.3	66 56.1		11	9.3	10 8.5	18 15.3	18 15.3	20 17.0	-	0	
Emmet	337	12 35.6	27 80.1		6	17.8	3 8.9	4 11.9	5 14.8	8 23.7	-	0	
Genesee	10,038	516 51.4	785 78.2		151	15.0	88 8.8	155 15.4	161 16.0	213 21.2	7	7.0	
Gladwin	206	6 29.1	16 77.7		5	24.3	1 4.9	1 4.9	1 4.9	1 4.9	-	0	
Gogebic	326	8 24.5	29 89.0		9	27.6	6 18.4	7 21.5	9 27.6	14 42.9	-	0	
Grand Traverse	717	28 39.1	58 80.9		13	18.1	10 13.9	13 18.1	14 19.5	17 23.7	-	0	
Gratiot	927	24 25.9	40 43.1		12	12.9	11 11.9	13 14.0	14 15.1	19 20.5	-	0	
Hillsdale	679	25 36.8	47 69.2		11	16.2	12 17.7	14 20.6	16 23.6	21 30.9	-	0	
Houghton	661	8 12.1	37 56.0		11	16.6	11 16.6	12 18.2	12 18.2	18 27.2	-	0	
Huron	763	16 21.0	47 61.6		9	11.8	8 10.5	17 22.3	17 22.3	20 26.2	-	0	
Ingham	5,401	247 45.7	365 67.6		52	9.6	45 8.3	79 14.6	83 15.4	114 21.1	1	1.9	
Ionia	895	24 26.8	43 48.0		10	11.2	5 5.6	11 12.3	12 13.4	20 22.3	-	0	
Iosco	792	6 7.6	57 72.0		9	11.4	8 10.1	14 17.7	14 17.7	20 25.3	-	0	
Iron	250	9 36.0	11 44.0		-	0	6 24.0	6 24.0	7 28.0	10 40.0	-	0	
Isabella	792	21 26.5	47 59.3		14	17.7	5 6.3	8 10.1	11 13.9	13 16.4	-	0	
Jackson	2,930	133 45.4	213 72.7		35	11.9	36 12.3	48 16.4	52 17.7	74 25.3	2	6.8	
Kalamazoo	3,794	169 44.5	318 83.8		57	15.0	33 8.7	56 14.8	60 15.8	86 22.7	-	0	
Kalkaska	80	3 37.5	8 100.0		2	25.0	-	0	-	2 25.0	-	0	
Kent	9,035	399 44.2	580 64.1		97	10.7	86 9.5	133 14.7	145 16.0	205 22.7	2	2.2	
Keweenaw	31	1 32.3	2 64.5		-	0	-	0	-	0	-	0	
Lake	91	10 109.9	9 98.9		3	33.0	-	0	2 22.0	3 33.0	5	54.9	
Lapeer	924	26 28.1	53 57.4		9	9.7	8 8.7	14 15.2	14 15.2	19 20.6	1	10.8	
Leelanau	192	6 31.2	8 41.7		2	10.4	2 10.4	2 10.4	2 10.4	3 15.6	-	0	
Lenawee	1,590	39 24.5	121 76.1		28	17.6	12 7.5	17 10.7	18 11.3	30 18.9	-	0	
Livingston	947	27 28.5	69 72.9		11	11.6	12 12.7	21 22.2	24 25.3	31 32.7	-	0	
Luce	110	5 45.5	9 81.8		1	9.1	1 9.1	3 27.3	3 27.3	4 36.4	-	0	
Mackinac	244	5 20.5	16 65.6		2	8.2	-	0	3 12.3	4 16.4	-	0	
Macomb	12,855	273 21.2	901 70.1		164	12.8	129 10.0	203 15.8	212 16.5	267 20.8	2	1.6	
Manistee	436	12 27.5	23 52.8		11	25.2	3 6.9	6 13.8	6 13.8	7 16.1	-	0	
Marquette	1,575	43 27.3	79 50.2		20	12.7	18 11.4	24 15.2	25 15.9	35 22.2	-	0	
Mason	403	13 32.3	21 52.1		8	19.9	2 5.0	2 5.0	2 5.0	5 12.4	-	0	
Mecosta	483	14 29.0	31 64.2		4	8.3	5 10.4	5 10.4	6 12.4	9 18.6	-	0	
Menominee	467	8 17.1	35 74.9		6	12.8	1 2.1	5 10.7	6 12.8	6 12.8	-	0	
Midland	1,270	25 19.7	64 50.4		20	15.7	5 3.9	12 9.4	13 10.2	17 13.4	-	0	
Missaukee	119	2 16.8	8 67.2		4	33.6	2 16.8	3 25.2	3 25.2	4 33.6	-	0	
Monroe	2,427	53 21.8	166 68.4		33	13.6	34 14.0	45 18.5	48 19.8	66 27.2	3	12.4	
Montcalm	795	28 35.2	65 81.8		10	12.6	3 3.8	8 10.1	12 15.1	20 25.2	-	0	
Montmorency	72	3 41.7	3 41.7		1	13.9	1 13.9	1 13.9	1 13.9	2 27.8	-	0	
Muskegon	3,697	235 63.6	258 69.8		68	18.4	46 12.4	75 20.3	82 22.2	100 27.0	2	5.4	
Newaygo	510	14 27.4	17 33.3		6	11.8	5 9.8	6 11.8	6 11.8	9 17.6	-	0	
Oakland	15,796	586 37.1	1,191 75.4		182	11.5	141 8.9	202 12.8	227 14.4	298 18.9	7	4.4	
Oceana	385	15 39.0	21 54.5		1	2.6	1 2.6	3 7.8	4 10.4	5 13.0	-	0	
Ogemaw	202	8 39.6	18 89.1		6	29.7	3 14.9	3 14.9	3 14.9	7 34.7	-	0	
Ontonagon	225	5 22.2	13 57.8		2	8.9	1 4.4	1 4.4	1 4.4	2 8.9	-	0	
Osceola	298	11 36.9	15 50.3		10	33.6	2 6.7	5 16.8	6 20.1	7 23.5	-	0	
Oscoda	77	1 13.0	7 90.9		2	26.0	-	0	-	-	-	0	
Otsego	183	8 43.7	9 49.2		-	0	3 16.4	4 21.9	4 21.9	5 27.3	-	0	
Ottawa	2,501	45 18.0	105 42.0		31	12.4	19 7.6	30 12.0	35 14.0	47 18.8	2	8.0	
Presque Isle	290	9 31.0	23 79.3		8	27.6	8 27.6	9 31.0	9 31.0	11 37.9	-	0	
Roscommon	127	6 47.2	8 63.0		2	15.7	1 7.9	2 15.7	2 15.7	2 15.7	-	0	
Saginaw	4,854	270 55.6	352 72.5		65	13.4	50 10.3	79 16.3	90 18.5	123 25.3	2	4.1	
St. Clair	2,470	94 38.1	171 69.2		42	17.0	29 11.7	46 18.6	48 19.4	61 24.7	2	8.1	
St. Joseph	893	36 40.3	51 57.1		12	13.4	4 4.5	9 10.1	11 12.3	16 17.9	-	0	
Sanilac	718	19 26.5	48 66.8		12	16.7	9 12.5	16 22.3	17 23.7	21 29.2	1	13.9	
Schoolcraft	175	4 22.9	9 51.4		-	0	1 5.7	2 11.4	2 11.4	3 17.1	-	0	
Shiawassee	1,284	45 35.0	83 64.6		12	9.3	9 7.0	16 12.5	16 12.5	24 18.7	-	0	
Tuscola	986	22 22.3	73 74.0		16	16.2	10 10.1	13 13.2	17 17.2	23 23.3	-	0	
Van Buren	1,045	38 36.4	75 71.8		19	18.2	10 9.6	14 13.4	18 17.2	29 27.8	-	0	
Washtenaw	4,209	177 42.1	294 69.8		39	9.3	50 11.9	67 15.9	74 17.6	91 21.6	1	2.4	
Wayne	54,140	4,146 76.6	4,981 92.0		879	16.2	664 12.3	992 18.3	1,075 19.9	1,401 25.9	32	5.9	
Wexford	383	5 13.1	22 57.4		4	10.4	8 20.9	9 23.5	9 23.5	11 28.7	-	0	

\* Defined by the World Health Organization for statistical purposes as all infants weighing

TABLE 11 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY LEGITIMACY AND IMMATURITY, FETAL DEATHS, DEATHS UNDER 1 YEAR BY AGE GROUPS, MATERNAL DEATHS, AND RATES (OR RATIOS) BY RESIDENCE FOR CITIES OF 10,000 POPULATION OR MORE: POPULATION MICHIGAN, 1963

(Deaths exclusive of fetal deaths. Birth and death rates per 1,000 population. Illegitimate and immature birth ratios, fetal death ratios, and death rates under 1 year by age groups per 1,000 live births. Maternal live birth rates per 10,000 live births.)

CITIES (10,000 Population or More According to April 1, 1960 Census)	POPULATION ESTIMATES  Jul. 1, 1963	L I V E B I R T H S						FETAL DEATHS	D E A T H S																
		R e s i d e n c e						Residence	R e s i d e n c e																
		Occurrence		Total		Illegitimate		Immature*		Residence	All Ages		I n f a n t			Maternal									
		Number	Rate	Number	Rate	Number	Ratio	Number	Ratio	Number	Rate	Number	Rate	Number	Rate	Number	Rate								
500,000 or More Detroit	1,628,700	42,620	26.2	31,458	19.3	3,409	108.4	3,261	103.7	584	18.6	18,671	11.5	18,575	11.4	400	12.7	608	19.3	665	21.1	878	27.9	27	8.6
100,000 - 499,999 Dearborn	113,800	4,392	38.6	2,782	24.4	66	23.7	192	69.0	43	15.5	697	6.1	967	8.5	20	7.2	28	10.1	33	11.9	38	13.7	1	3.6
Flint	210,300	10,176	48.4	5,132	24.4	439	85.5	445	86.7	79	15.4	2,464	11.7	1,784	8.5	54	10.5	88	17.1	94	18.3	117	22.8	3	5.8
Grand Rapids	209,500	7,243	34.6	5,028	24.0	343	68.2	351	69.8	67	13.3	2,642	12.6	2,336	11.1	55	10.9	89	17.7	95	18.9	129	25.7	1	2.0
Lansing	120,500	6,125	50.8	3,055	25.4	176	57.6	247	80.9	36	11.8	1,381	11.5	1,105	9.2	32	10.5	51	16.7	55	18.0	69	22.6	1	3.3
50,000 - 99,999 Ann Arbor	72,700	3,614	49.7	1,734	23.9	47	27.1	104	60.0	12	6.9	1,419	19.5	403	5.5	15	8.7	19	11.0	22	12.7	26	15.0	1	5.8
Bay City	52,600	2,581	49.1	1,233	23.4	38	30.8	87	70.6	19	15.4	818	15.6	620	11.8	4	3.2	13	10.5	14	11.4	21	17.0	-	0
Jackson	51,400	3,011	58.6	1,117	21.7	90	80.6	91	81.5	17	15.4	1,051	16.6	612	11.9	18	16.1	24	21.5	26	23.3	32	28.6	1	9.0
Kalamazoo	84,100	3,612	42.9	1,871	22.2	128	68.4	181	96.7	26	13.9	1,358	16.1	873	10.4	17	9.1	28	15.0	30	16.0	46	24.6	-	0
Lincoln Park	55,100	1,222	22.2	1,181	21.4	33	27.9	89	75.4	14	11.9	411	7.5	323	5.9	15	17.7	19	16.1	20	16.9	23	19.5	-	0
Livonia	74,900	1,958	26.1	2,021	27.0	27	13.4	125	61.9	19	9.4	409	5.5	368	4.9	14	6.9	23	11.4	24	11.9	28	13.9	-	0
Pontiac	84,800	6,698	79.0	5,305	27.2	210	91.1	203	88.1	31	13.4	1,755	20.7	779	9.2	24	10.4	36	15.6	40	17.4	55	23.9	1	4.3
Roseville	55,800	4	0.1	1,381	24.7	30	21.7	91	65.9	19	16.7	50	0.9	266	4.8	11	8.0	21	15.2	21	15.2	27	19.6	-	0
Royal Oak	84,200	2,973	35.3	1,796	21.3	55	30.6	119	66.3	24	13.4	921	10.9	495	5.9	10	5.6	12	6.7	12	6.7	18	10.0	2	11.1
Saginaw	100,600	4,972	49.4	2,374	23.6	215	90.6	207	87.2	35	14.7	1,406	14.0	1,039	10.3	29	12.2	43	18.1	48	20.2	68	28.6	2	8.4
St. Clair Shores	85,100	2	0.0	1,891	22.2	30	15.9	129	68.2	30	15.9	116	1.4	390	4.6	29	15.3	35	18.5	35	18.5	46	23.3	1	5.3
Warren	118,700	507	4.3	4,181	35.2	81	19.4	282	67.4	48	11.5	272	2.3	599	5.0	42	10.0	68	16.3	71	17.0	87	20.8	1	2.4
25,000 - 49,999 Allen Park	38,000	-	0	650	17.1	13	20.0	51	78.5	4	6.2	679	17.9	200	5.3	8	12.3	9	13.8	9	13.8	11	16.9	-	0
Battle Creek	43,300	2,098	48.5	1,003	23.2	89	88.7	93	92.7	14	14.0	698	16.1	585	13.5	10	12.2	15	18.3	15	18.3	19	23.2	-	0
Birmingham	26,500	1	0.0	819	30.9	13	15.9	59	72.0	4	4.9	36	1.4	253	9.5	6	6.0	11	11.0	11	11.0	17	16.9	-	0
East Detroit	49,900	1	0.0	885	17.7	19	21.5	60	67.8	10	11.3	63	1.3	268	5.4	7	7.9	12	13.6	13	14.7	17	19.2	-	0
East Lansing	32,300	3	0.1	737	22.8	11	14.9	29	39.3	4	5.4	23	0.7	107	3.3	3	4.1	7	9.5	7	9.5	11	14.9	-	0
Ferndale	31,900	420	13.2	723	22.7	37	51.2	58	80.2	7	9.7	141	4.4	285	8.9	3	4.1	4	5.5	6	8.3	7	9.7	-	0
Garden City	40,000	1,414	35.4	1,443	36.1	27	18.7	106	73.5	19	13.2	172	4.3	195	4.9	17	11.8	21	14.6	23	15.9	26	18.0	-	0
Hamtramck	33,100	309	9.3	596	18.0	26	43.6	58	97.3	17	28.5	328	9.9	496	15.0	11	18.5	13	21.8	13	21.8	19	31.9	-	0
Hazel Park	26,400	-	0	598	22.7	20	33.4	65	108.7	7	11.7	50	1.9	159	6.0	7	11.7	13	21.7	13	21.7	14	23.4	-	0
Highland Park	36,700	4,506	122.8	618	16.8	61	98.7	68	110.0	12	19.4	960	26.2	572	15.6	8	12.9	14	22.7	16	25.9	19	30.7	-	0
Inkster	37,600	-	0	1,087	28.9	108	99.4	100	92.0	18	16.6	37	1.0	237	6.3	21	19.3	29	26.7	30	27.6	34	31.3	1	9.2
Madison Heights	35,300	1	0.0	1,105	31.3	12	10.9	95	86.0	12	10.9	16	0.5	161	4.6	19	17.2	22	19.9	29	26.2	39	26.2	1	9.0
Midland	28,600	1,294	45.2	724	25.3	15	20.7	33	45.6	11	15.2	203	7.1	153	5.3	2	2.8	4	5.5	7	9.7	7	9.7	-	0
Muskegon	46,900	3,507	74.8	1,148	24.5	124	108.0	82	71.4	25	21.8	879	18.7	516	11.0	13	13.3	23	20.0	26	22.6	32	27.9	-	0
Oak Park	37,500	1	0.0	612	16.3	9	14.7	42	68.6	6	9.8	30	0.8	179	4.8	5	8.2	6	9.8	7	11.4	8	13.1	-	0
Port Huron	36,100	1,679	46.5	982	27.2	52	53.0	75	76.4	12	12.2	714	19.8	426	11.8	15	15.3	19	19.3	20	20.4	25	25.5	-	0
Southfield	35,300	1	0.0	803	22.7	21	26.2	60	74.7	8	10.0	73	2.1	214	6.1	6	7.5	8	10.0	8	10.0	14	17.4	-	0
Southgate	29,700	2	0.1	608	20.5	21	34.5	55	90.5	8	13.2	73	2.5	138	4.6	10	16.4	13	21.4	14	23.0	16	23.0	-	0
Wyandotte	43,800	1,615	36.9	1,018	23.2	36	35.4	75	73.7	14	13.8	627	9.7	398	9.1	14	13.8	18	17.7	18	17.7	25	24.6	-	0
Wyoming	51,700	2	0.0	1,159	22.4	9	7.8	69	59.5	6	5.2	93	1.8	263	5.1	8	6.9	14	12.1	16	13.8	23	19.8	-	0
10,000 - 24,999 Adrian	19,800	938	47.4	443	22.4	17	38.4	26	58.7	9	20.3	256	12.9	200	10.1	1	2.3	3	6.8	3	6.8	7	15.8	-	0
Albion	12,600	513	40.7	264	21.0	19	72.0	26	98.5	6	22.7	125	9.9	109	8.7	6	22.7	7	26.5	7	26.5	8	30.3	-	0
Alpena	14,900	841	57.6	282	19.3	11	39.0	21	74.5	4	14.2	274	18.8	163	11.2	5	17.7	7	24.8	7	24.8	11	39.0	-	0
Benton Harbor	20,400	751	36.8	734	37.0	102	135.3	75	99.5	15	19.9	276	13.5	258	12.6	6	8.0	8	10.6	9	11.9	12	15.9	1	13.3
Berkley	23,700	-	0	464	19.6	12	25.9	38	81.9	6	12.9	21	0.9	148	6.2	4	8.6	7	15.1	7	15.1	8	17.2	-	0
Cadillac	10,200	522	51.2	208	20.4	5	24.0	9	43.3	1	4.8	238	23.3	121	11.9	2	9.6	3	14.4	3	14.4	4	19.2	-	0
Center Line	11,100	1	0.1	242	21.8	6	24.8	17	70.2	3	12.4	13	1.2	60	5.4	1	4.1	3	12.4	3	12.4	4	12.4	-	0
Clawson	15,400	-	0	364	23.6	8	22.0	23	63.2	4	11.0	15	1.0	82	5.3	4	11.0	5	13.7	6	16.5	6	16.5	-	0
East Grand Rapids	11,100	2,580	232.4	162	14.6	2	12.3	9	55.6	1	6.2	529	47.7	70	6.3	3	18.5	4	24.7	4	24.7	4	24.7	-	0
Ecorse	17,600	2	0.1	437	24.8	40	91.5	46	105.3	4	9.2	39	2.2	192	10.9	9	20.6	13	29.7	14	32.0	21	48.1	1	2.3
Escanaba	15,200	789	51.9	359	23.6	8	22.3	14	39.0	5	13.9	231	15.2	170	11.2	2	5.6	3	8.4	3	8.4	5	13.9	-	0
Grand Haven	11,40																								

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION MICHIGAN, 1963

AREA	POPULATION ESTIMATES Jul. 1, 1963	LIVE BIRTHS				RESIDENCE					PLACE OF DELIVERY				DEATHS				FATAL DEATHS									
		Number	Rate	Male	Female	Nonwhite	White	Other	Triplets	Place of Delivery	Other	Other	Other	Other	Other	Other	Other	Other	Number	Rate								
STATE	8,030,000	177,616	22.1	178,871	22.3	191,546	87,325	19,417	540	3,834	51	177,948	830	93	8,769	13,605	2,540	71,856	8.9	72,438	9.0	6,442	106	1,865	2,867	3,109	4,150	71
ALCONA	6,100	38	6.2	125	20.5	58	67	-	-	-	-	123	2	3	7	-	-	30	4.9	73	12.0	-	1	1	1	1	1	1
ALGER	8,900	169	16.7	174	19.6	80	94	-	-	-	-	173	1	10	5	5	5	81	9.1	118	13.3	-	1	1	1	1	1	1
ALLEGAN	4,100	168	36.1	85	20.7	42	43	-	-	-	-	85	3	3	3	3	3	56	13.7	38	9.3	-	1	1	1	1	1	1
Balance of County	4,800	1	0.2	89	18.5	38	51	-	-	-	-	88	1	7	2	2	2	25	5.2	80	16.7	-	1	1	1	1	1	1
ALLEGAN	56,900	888	15.6	411	87.4	622	649	12	3	26	-	1,259	8	4	41	81	17	475	8.3	596	10.5	20	2	8	16	18	25	-
Balance of County	4,700	-	0	58	21.5	29	29	-	-	-	-	86	1	4	4	4	4	132	28.1	74	15.7	2	1	2	2	2	2	4
ALPENA	28,900	841	29.1	740	25.6	401	339	1	1	16	-	739	1	-	21	43	7	326	11.3	289	10.0	-	11	13	13	13	20	-
Balance of County	14,300	-	0	282	19.3	145	137	-	-	4	-	282	1	-	10	22	4	274	18.8	163	11.2	-	5	7	7	11	11	-
ANTRIM	10,400	87	8.4	190	18.3	99	91	-	-	2	-	188	-	2	5	13	4	113	10.9	147	14.1	-	-	2	4	4	6	-
ARENAC	9,500	68	7.2	181	19.1	98	83	-	-	2	-	178	3	-	6	11	4	111	11.7	137	14.4	1	-	-	2	2	3	-
BARAGA	7,400	213	28.8	177	23.9	105	72	-	-	4	-	177	-	-	1	6	3	96	13.0	92	12.4	-	5	3	3	3	5	-
BARRY	28,800	552	19.2	743	25.8	391	352	-	-	18	-	740	3	-	19	36	5	266	9.2	315	10.9	-	6	10	12	15	-	-
Balance of County	23,100	1	0.0	611	26.5	326	285	-	-	10	-	610	1	-	14	25	4	150	26.5	79	13.9	-	-	-	1	2	13	-
BAY	106,000	2,587	24.4	2,470	23.3	1,268	1,202	15	2	54	-	2,460	9	1	50	39	39	996	9.4	992	9.4	8	-	15	33	35	50	-
Balance of County	48,800	6	0.1	1,131	23.2	601	530	-	-	13	-	1,127	3	1	21	65	18	166	3.4	334	6.8	1	-	10	19	20	27	-
BEAUFORT	8,000	139	17.4	153	19.1	84	69	4	2	2	-	145	8	-	7	13	3	107	13.4	117	14.6	-	-	1	1	1	2	-
Balance of County	25,900	3	0.1	447	17.3	233	214	-	-	8	-	444	3	-	13	27	5	179	6.9	260	10.0	-	-	4	4	5	5	-
BERRIEN	154,100	3,570	23.2	3,550	23.0	1,859	1,691	493	5	95	-	3,541	8	1	102	270	60	1,413	9.2	1,493	9.7	139	2	24	46	52	80	1
Balance of County	20,400	751	36.8	756	37.0	390	366	279	1	19	-	751	2	-	10	75	15	276	13.5	258	12.6	61	1	6	8	9	12	1
BENTON HARBOR	5,700	132	23.2	65	67	57	49	11	-	8	-	106	-	-	4	7	5	14	2.6	55	10.2	-	2	2	3	3	4	-
Balance of County	23,100	1	0.0	611	26.5	326	285	-	-	10	-	610	1	-	14	25	4	150	26.5	79	13.9	-	-	-	1	2	13	-
BEYER	12,100	835	58.0	421	28.2	205	216	29	-	16	-	419	2	-	16	33	5	249	17.3	177	12.3	9	-	2	3	4	8	-
Balance of County	101,800	1,011	83.6	289	23.9	142	147	1	-	10	-	289	-	-	6	13	4	659	6.5	884	8.7	68	1	13	32	36	57	-
BRANCH	34,700	671	19.3	662	18.5	336	306	-	-	8	-	639	3	-	22	40	9	402	11.6	368	10.6	-	-	6	7	8	10	-
Balance of County	25,900	3	0.1	447	17.3	233	214	-	-	8	-	444	3	-	13	27	5	179	6.9	260	10.0	-	-	4	4	5	5	-
CALHOUN	137,300	3,336	24.3	3,046	22.2	1,559	1,487	274	12	61	-	3,036	10	-	144	249	50	1,407	10.2	1,306	9.5	76	-	35	51	54	74	1
Balance of County	25,900	5	0.2	514	17.2	266	248	58	-	14	-	508	4	-	10	35	10	223	25.3	303	10.1	42	-	7	9	12	13	-
CASS	37,200	286	7.7	688	18.5	351	337	83	2	16	-	682	4	2	18	44	14	274	7.4	396	10.6	55	1	9	12	16	17	-
Balance of County	29,900	281	38.5	174	23.8	85	89	25	2	2	-	174	-	8	9	9	4	223	25.3	303	10.1	42	-	7	9	12	13	-
CHARLEVOIX	14,000	204	14.6	333	23.8	181	152	-	-	6	-	331	1	1	9	22	6	157	11.2	199	14.2	-	-	2	2	2	4	-
Balance of County	2,800	-	0	59	21.1	30	29	-	-	-	-	59	-	-	2	6	1	15	5.2	49	16.9	-	-	-	-	-	-	-
CHEROKEE	13,800	238	18.7	318	23.0	162	156	-	-	6	-	317	-	1	15	24	7	147	10.7	177	12.8	1	1	6	10	10	14	-
Balance of County	8,200	237	43.9	124	22.1	66	98	-	-	2	-	124	-	-	10	11	3	106	18.9	69	12.3	-	-	4	5	5	7	-
CHIPPewa	35,800	1,156	32.3	1,169	32.7	602	567	44	15	34	-	1,164	2	3	22	100	7	297	8.3	335	9.4	2	3	17	25	25	35	-
Balance of County	13,400	549	35.6	583	37.9	285	298	30	11	16	-	579	1	3	13	47	4	58	3.8	145	9.4	2	3	8	11	11	20	-

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	POPULATION ESTIMATES			LIVE BIRTHS											RESIDENCE	Occurrence		DEATHS																			
	July 1, 1963			Number	Rate	Sex		Race		Plural Births	Place of Delivery			Immat- Births*	Number	Rate	Nonwhite		Residence				Occurrence				Racial										
	July 1, 1963					Male	Female	White	Negro		Other	Hospital	Non-hospital				Physician	Other	White	Negro	White	Negro	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other				
Area	Number	Rate	Sex	Race	Plural	Hospital	Non-hospital	Physician	Other	Immat- Births*	Number	Rate	White	Negro	Other	White	Negro	Other	White	Negro	Other	White	Negro	Other	White	Negro	Other	White	Negro	Other							
CLARE	12,100	34.1	28.2	273	22.6	145	128	-	1	8	-	272	-	-	1	14	-	-	-	-	-	4	-	-	158	13.1	-	-	-	-	-	1	3	3	5	1	
CLINTON	41,900	40.1	9.6	1,014	24.2	530	484	3	14	-	1,013	-	-	-	1	25	-	-	-	-	-	9	-	-	363	8.7	-	-	-	-	-	10	19	21	28	-	
St. Johns	6,100	400	65.6	154	25.2	75	79	1	154	-	859	-	-	-	1	19	-	-	-	-	-	6	-	-	84	13.8	-	-	-	-	-	2	4	5	6	-	
Balance of County	35,800	1	0.0	860	24.0	455	405	2	14	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	116	3.2	-	-	-	-	-	8	15	16	22	-	
CRAWFORD	5,200	203	39.0	107	20.6	61	46	-	4	-	107	-	-	-	-	-	-	-	-	-	-	2	-	-	99	19.0	-	-	-	-	-	-	3	3	4	-	
DELTA	33,800	792	23.4	758	22.4	390	368	-	3	16	-	750	-	-	1	7	17	-	-	-	-	9	-	-	315	9.3	-	-	-	-	-	5	7	7	11	-	
Escanaba	15,200	789	51.9	359	23.6	191	168	-	2	2	-	354	-	-	5	8	14	-	-	-	-	5	-	-	231	15.2	-	-	-	-	-	2	3	3	5	-	
Gladstone	5,500	-	0	194	35.3	92	102	-	2	2	-	193	-	-	1	5	8	-	-	-	-	4	-	-	11	2.0	-	-	-	-	-	1	1	1	1	-	
Balance of County	13,100	3	0.2	205	15.6	107	98	-	1	12	-	203	-	-	2	4	15	-	-	-	-	4	-	-	73	5.6	-	-	-	-	-	2	3	3	5	-	
DICKINSON	24,300	689	28.4	689	28.4	238	232	-	1	8	-	469	-	-	1	12	12	-	-	-	-	5	-	-	426	17.5	-	-	-	-	-	6	10	10	12	-	
Iron Mountain	9,300	538	57.8	168	18.1	90	78	-	1	6	-	145	-	-	7	7	10	-	-	-	-	3	-	-	329	35.4	-	-	-	-	-	2	3	3	4	-	
Kingsford	5,400	-	0	145	26.9	69	76	-	1	6	-	145	-	-	1	14	14	-	-	-	-	3	-	-	9	1.7	-	-	-	-	-	2	3	3	3	-	
Norway	3,200	151	47.2	57	17.8	26	31	-	1	2	-	57	-	-	1	1	1	-	-	-	-	1	-	-	59	18.4	-	-	-	-	-	1	1	1	1	-	
Balance of County	6,400	-	0	100	15.6	53	47	-	-	-	-	99	-	-	3	3	5	-	-	-	-	2	-	-	29	4.5	-	-	-	-	-	1	1	1	1	-	
EATON	52,200	665	12.7	1,177	22.5	597	580	2	3	18	-	1,176	-	-	1	38	-	-	-	-	-	11	-	-	345	6.6	-	-	-	-	-	10	18	18	20	-	
Charlotte	8,600	280	47.3	208	26.0	115	93	-	1	1	-	208	-	-	9	9	11	-	-	-	-	11	-	-	165	20.6	-	-	-	-	-	1	3	3	4	-	
Eaton Rapids	4,200	285	67.3	153	22.1	48	45	-	2	2	-	93	-	-	5	5	5	-	-	-	-	1	-	-	71	16.9	-	-	-	-	-	1	1	1	1	-	
Grand Lodge	5,500	-	0	123	22.4	55	68	-	-	-	-	123	-	-	1	1	1	-	-	-	-	1	-	-	18	3.3	-	-	-	-	-	1	1	2	2	-	
Balance of County	34,500	-	0	753	21.8	379	374	1	16	-	-	752	-	-	23	23	41	-	-	-	-	7	-	-	91	2.6	-	-	-	-	-	8	12	12	13	-	
ENMET	16,100	571	35.5	337	20.9	164	173	-	14	4	-	335	-	-	1	12	12	-	-	-	-	6	-	-	254	15.8	-	-	-	-	-	13	3	4	5	8	-
Petoskey	6,200	571	92.1	143	23.1	70	73	-	8	4	-	142	-	-	1	6	12	-	-	-	-	3	-	-	213	34.4	-	-	-	-	-	1	1	1	3	-	
Balance of County	9,900	-	0	194	19.6	94	100	-	-	-	-	193	-	-	1	6	15	-	-	-	-	3	-	-	41	4.1	-	-	-	-	-	2	3	4	5	-	
GENESSEE	401,700	10,184	25.4	10,038	25.0	5,139	4,899	1,233	11	218	1	10,010	26	2	516	2	85	-	-	-	-	151	-	-	2,970	7.4	-	-	-	-	-	88	155	161	213	7	
Davidson	6,900	-	0	268	38.8	136	132	-	4	2	-	268	-	-	5	5	17	-	-	-	-	2	-	-	64	9.3	-	-	-	-	-	6	13	23	5.0	-	
Fenton	4,600	1	0.1	274	59.7	136	138	-	1	2	-	273	-	-	5	5	13	-	-	-	-	2	-	-	64	9.3	-	-	-	-	-	2	3	3	4	-	
Flint	210,300	5,132	24.4	2,634	12.4	1,414	1,141	4	118	2	5,112	18	2	439	2	445	-	-	-	-	-	79	-	-	2,464	11.7	-	-	-	-	-	54	88	94	117	3	
Fushing	4,400	-	0	199	45.2	96	103	-	1	2	-	199	-	-	3	3	15	-	-	-	-	3	-	-	6	1.4	-	-	-	-	-	3	5	5	7	-	
Mount Morris	4,800	-	0	463	96.5	233	230	3	-	-	-	462	-	-	2	2	14	-	-	-	-	3	-	-	6	1.2	-	-	-	-	-	3	5	5	7	-	
Swartz Creek	3,500	-	0	181	51.7	88	93	-	4	-	-	181	-	-	2	2	12	-	-	-	-	1	-	-	4	1.1	-	-	-	-	-	1	3	3	3	-	
Balance of County	167,200	6	0.0	3,521	21.1	1,816	1,705	89	5	78	-	3,515	6	-	38	-	249	-	-	-	-	64	-	-	420	2.5	-	-	-	-	-	29	57	57	83	3	
GLADWIN	10,200	60	5.9	206	20.2	100	106	-	2	6	-	205	-	-	6	6	16	-	-	-	-	5	-	-	103	10.1	-	-	-	-	-	1	1	1	1	-	
GOGEBIC	22,000	438	19.9	326	14.8	157	169	-	2	10	-	326	-	-	8	8	29	-	-	-	-	2	-	-	343	15.6	-	-	-	-	-	6	7	9	14	-	
Bessemer	3,000	-	0	53	17.7	25	28	-	4	4	-	53	-	-	1	1	2	-	-	-	-	2	-	-	9	3.0	-	-	-	-	-	1	1	1	1	-	
Ironwood	9,300	-	0	134	14.4	68	66	1	2	2	-	134	-	-	3	3	8	-	-	-	-	3	-	-	44	4.7	-	-	-	-	-	1	1	2	4	-	
Wakefield	2,900	230	79.3	56	19.3	26	30	-	-	-	-	56	-	-	4	4	13	-	-	-	-	1	-	-	132	45.5	-	-	-	-	-	1	1	2	4	-	
Balance of County	6,800	208	30.6	83	12.2	38	45	-	2	4	-	83	-	-	4	4	15	-	-	-	-	3	-	-	158	23.2	-	-	-	-	-	5	6	7	9	-	
GRAND TRAVERSE	35,300	1,054	29.9	717	20.3	368	349	1	7	18	-	716	-	-	28	28	58	-	-	-	-	13	-	-	663	18.8	-	-	-	-	-	10	13	14	17	-	
Traverse City	19,200	1,054	54.9	333	17.3	174	159	1	5	10	-	333	-	-	23	23	30	-	-	-	-	7	-	-	616	32.1	-	-	-	-	-	5	7	7	9	-	
Balance of County	16,100	-	0	384	23.9	194	190	-	2	8	-	383	-	-	5	5	28	-	-	-	-	6	-	-	47	2.9	-	-	-	-	-	5	6	7	8	-	
GRATIOT	31,500	771	20.6	927	24.7	460	467	-	-	14	-	905	-	-	24	24	40	-	-	-	-	12	-	-	472	12.6	-	-	-	-	-	11	13	14	19	-	
Alma	9,000	750	83.3	184	20.4	86	98	-	-	-	-	182	-	-	4	4	4	-	-	-	-	3	-	-	258	28.7	-	-	-	-	-	1	3	3	4	-	
Ithaca	2,900	0	0.0	64	22.1	35	29	-	2	2	-	64	-	-	3	3	4																				

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND MATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	LIVE BIRTHS										FETAL DEATHS					DEATHS									
	POPULATION ESTIMATES		Occurrence			Residence				Residence		Occurrence			Residence		Residence		Residence						
	Jul. 1, 1963		Number		Rate		Sex		Place of Delivery		Illegitimate Births*		Number		Number Rate			Number		Number Rate		Number			
	Rate	Male	Female	Nonwhite	White	Single	Plural	Twins	Triplets	Hospital	Non-hospital	Physician	Other	Physician	Other	Other	Other	Other	Other	Other	Other	Other	Other		
Rate	Male	Female	Nonwhite	White	Single	Plural	Twins	Triplets	Hospital	Non-hospital	Physician	Other	Physician	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other		
IOWA	43,600	895	477	418	20.5	2	13	886	6	3	24	43	10	344	7.9	433	9.9	5	11	12	20	-	-		
	4,900	126	58	54	25.7	-	-	126	-	-	3	4	2	67	13.7	63	12.3	-	1	1	2	2	-	-	
IONIA	6,800	411	191	193	67	64	-	130	-	-	8	4	3	140	20.6	99	14.9	-	2	1	2	1	-	-	
	3,400	8	0	0	93	27.4	2	537	6	2	11	27	2	123	4.3	235	8.2	-	4	7	8	11	-	-	
Balance of County	28,500	8	0	0	54.5	19.1	292	253	537	6	2	27	2	162	7.8	173	8.4	-	8	14	14	20	-	-	
	20,700	820	39.6	389	403	38	18	782	9	1	6	57	9	222	14.0	255	16.0	-	6	6	7	10	-	-	
IOWA	15,900	250	15.7	117	133	1	4	248	2	-	9	11	-	22	6.5	62	18.2	-	2	2	2	3	-	-	
	3,400	249	19.9	184	14.7	81	103	185	1	-	7	8	-	200	16.0	193	15.4	-	4	4	5	7	-	-	
Balance of County	12,500	249	19.9	184	14.7	81	103	185	1	-	7	8	-	200	16.0	193	15.4	-	4	4	5	7	-	-	
	35,300	718	20.4	792	22.5	409	383	791	-	1	21	47	14	254	7.2	258	7.3	-	5	8	11	13	-	-	
ISABELLA	15,900	717	47.2	278	18.3	144	134	278	-	1	11	15	2	179	11.8	95	6.2	-	4	6	8	8	-	-	
	20,000	1	0.0	514	25.7	3	12	513	-	1	10	32	12	75	3.8	163	8.2	-	1	2	3	5	-	-	
Balance of County	133,900	3,033	22.7	2,930	21.9	1,628	1,502	2,920	10	-	133	213	35	8,584	8.8	1,250	9.3	-	36	48	52	74	2	-	
	51,600	3,011	58.6	1,517	21.7	1,059	548	1,114	3	-	90	92	17	1,558	16.1	873	10.4	-	18	24	26	32	1	-	
JACKSON	84,000	3,612	42.9	1,871	22.2	962	909	1,917	6	-	41	137	18	341	3.8	619	6.8	-	16	28	30	40	-	-	
	90,300	191	2.1	1,923	21.2	947	976	1,917	6	-	41	137	18	341	3.8	619	6.8	-	16	28	30	40	-	-	
Balance of County	4,400	72	16.4	80	18.2	43	37	80	-	-	3	8	2	60	13.6	70	15.9	-	-	-	-	-	-	-	
	378,200	9,846	26.0	9,035	23.9	4,860	4,375	8,995	34	-	6	399	97	3,694	9.8	3,457	9.1	-	86	133	145	205	2	-	
KENT	11,100	2,580	232.4	1,662	14.6	82	80	161	1	-	2	9	1	529	47.7	70	6.3	-	3	4	4	4	1	-	
	209,500	7,243	34.6	5,028	24.0	2,159	2,432	5,009	17	-	343	351	67	2,642	12.6	2,394	11.1	-	53	89	95	129	1	-	
Grand Rapids	8,400	1	0.1	234	27.9	120	114	233	-	-	2	9	2	31	3.7	71	8.5	-	2	2	3	3	-	-	
	2,600	-	0	60	23.1	33	27	60	-	-	3	5	-	27	10.4	33	12.7	-	1	1	1	2	-	-	
Lewell	2,900	10	3.4	91	31.4	44	47	89	2	-	4	6	1	50	17.2	41	14.1	-	8	14	16	23	-	-	
	51,700	2	0.0	1,159	22.4	603	556	1,157	11	-	4	36	6	322	3.3	645	7.0	-	17	23	25	42	1	-	
Balance of County	92,000	10	0.1	2,301	25.0	1,182	1,119	2,286	11	-	4	36	22	322	3.5	645	7.0	-	17	23	25	42	1	-	
	2,500	-	0	31	12.4	23	8	31	-	-	1	2	2	15	6.0	47	18.8	-	-	-	-	-	-	-	
KEWANAW	5,200	1	0.2	91	17.5	43	48	90	1	-	10	9	3	42	8.1	108	20.8	-	-	2	3	5	-	-	
	43,400	869	20.0	924	21.3	484	440	922	2	-	26	53	9	341	7.9	368	8.5	-	8	14	14	19	1	-	
LAPEER	6,300	867	137.6	144	22.9	60	84	144	-	-	1	4	1	209	33.2	67	10.6	-	1	1	1	1	1	-	
	37,100	2	0.1	780	21.0	424	356	778	2	-	17	44	8	132	3.6	301	8.1	-	7	13	13	18	-	-	
Balance of County	9,400	36	3.8	192	20.4	98	94	191	1	-	6	8	2	51	5.4	102	10.9	-	2	2	2	3	-	-	
	75,700	1,815	24.0	1,590	21.0	833	757	1,583	7	-	39	121	28	730	9.6	761	10.1	-	12	17	18	30	-	-	
LENAWEE	19,800	938	47.4	443	22.4	236	207	443	-	-	17	26	9	256	12.9	200	10.1	-	1	3	3	7	-	-	
	2,600	1	0.4	48	18.5	31	17	48	-	-	1	4	1	16	6.2	43	16.5	-	1	1	1	2	-	-	
Blissfield	2,400	203	85.4	41	17.1	21	21	41	-	-	1	1	-	80	33.3	36	15.0	-	1	1	2	2	-	-	
	7,000	433	62.1	173	25.0	95	80	175	-	-	6	13	2	127	18.1	60	8.6	-	1	1	2	5	-	-	
Balance of County	43,900	238	5.4	883	20.1	451	432	876	7	-	15	77	17	251	5.7	422	9.6	-	7	10	10	14	-	-	
	39,600	731	18.5	947	23.9	492	455	942	5	-	27	69	11	324	8.2	383	9.7	-	12	21	24	31	-	-	
LIVINGSTON	5,000	738	145.6	182	36.4	96	86	181	-	-	9	18	11	149	29.8	83	16.6	-	1	3	6	9	-	-	
	34,800	3	0.1	765	22.1	396	369	761	4	-	18	51	11	175	5.1	300	8.7	-	9	15	17	22	-	-	
Balance of County	7,200	117	16.2	110	15.3	49	61	108	-	-	2	5	1	193	26.8	69	9.6	-	1	3	3	4	-	-	
	2,400	116	48.3	64	26.7	27	24	62	-	-	2	1	1	62	25.8	43	17.9	-	1	1	3	3	-	-	
Balance of County	4,800	1	0.2	46	9.6	22	24	46	-	-	4	4	1	131	27.3	26	5.4	-	1	1	3	4	-	-	
	10,600	200	18.9	244	23.0	131	113	242	1	-	1	5	2	76	7.2	107	10.1	-	1	3	3	4	-	-	
MACKINAC	3,300	186	56.4	89	27.0	45	44	88	-	-	1	6	1	40	12.1	31	9.4	-	-	-	-	-	-	-	
	7,300	14	1.9	155	21.2	86	69	154	1	-	3	3	1	36	4.9	76	10.4	-	1	1	1	1	-	-	
Balance of County	477,200	5,220	10.9	12,855	26.9	6,557	6,298	12,813	36	-	6	273	164	1,918	4.0	2,653	5.6	-	4	129	203	212	267	2	-
	11,100	1	0.1	242	21.8	127	115	241	-	-	1	19	3	17	1.2	60	5.6	-	-	1	3	3	3	-	-
Center Line	49,900	3	0.0	885	17.7	442	443	883	-	-	1	19	3	63	1.3	268	5.6	-	-	7	12	13	17	-	-
	8,900	3	0.3	333	37.4	166	167	330	3	-	3	14	10	8	0.9	37	4.2	-	-	1	1	1	1	-	-
Fraser	24,100	3,955	164.1	1,762	73.1	875	887	1,757	3	-	61	18	14	990	41.1	307	12.7	-	-	10	17	19	23	-	-
	2,800	2	0.7	181	64.6	92	89	180	1	-	5	1	1	9	3.2	38	13.6	-	-	1	2	2	3	-	-
New Baltimore Pt.	3,000	1	0.3	136	45.3	77	59	135	-	-	1	1	1	36	10.0	54	15.0	-	-	2	3	3	4	-	-
	3,600	4	0.1	1,381	24.7	728	653	1,376	6	-	30	91	23	50	0.9	266	4.8	-	-	2	3	3	4	-	-
Romeo	55,800	2	0.0	1,891	22.2	966	825	1,875	5	-	3	10	30	116	1.4	390	4.6	-	-	11	21	21	27	-	-
	88,100	507	4.3	4,181	35.2</																				

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	POPULATION ESTIMATES			LIVE BIRTHS										FETAL DEATHS				DEATHS						
	July 1, 1963			Number		Rate		Sex		Nonwhite		Number Born in		Place of Delivery		Residence		Occurrence		Race		Age		
		Number	Rate	Male	Female	Nonwhite	Other	Twins	Triplets	Hospital	Non-Hospital	Hospital	Physician	Physician	Other	Number	Number	Rate	Rate	Nonwhite	Under 1 Year	Under 1 Year	Mother	Under 1 Year
MANISTEE	19,200	436	22.3	232	204	4	6	8	434	2	12	23			11	234	12.2	14.1	1	2	3	6	6	7
Manistee	8,500	297	34.9	209	187	4	4	6	209	2	7	9			6	131	15.4	11.9	1	1	2	3	3	3
Balance of County	10,700	131	12.2	227	117	4	2	2	225	2	5	14			5	103	9.6	15.1	1	1	1	3	3	4
MARQUETTE	61,400	1,593	25.9	1,575	25.7	50	23	26	1,572	1	43	19			20	586	9.5	58.1	5	4	18	24	25	35
Ishtepung	9,600	467	48.6	254	26.5	134	120	3	6	11	14	234			10	198	20.6	125	2	3	2	3	3	6
Marquette	21,800	727	33.3	558	25.6	290	268	7	5	16	16	6			2	233	10.7	20.1	2	3	2	3	3	6
Negaunee	6,600	135	20.5	70	65	4	2	5	135	2	10	9			6	16	2.4	75	1	1	1	1	1	2
Balance of County	23,400	399	17.1	628	26.8	36	13	12	600	2	10	29			6	139	5.9	180	7.7	3	1	11	15	16
MASON	21,700	384	17.7	403	18.6	213	190	6	426	2	13	21			8	225	10.4	24.2	1	1	2	2	2	5
Ludington	9,600	382	39.8	267	27.8	138	129	2	266	1	13	15			6	147	15.3	106	11.2	1	1	1	1	1
Balance of County	12,100	2	0.2	136	11.2	75	61	4	134	1	2	6			2	78	6.4	136	11.2	1	1	1	1	4
MECOSTA	21,800	459	21.1	483	22.2	245	238	1	482	1	14	31			4	225	10.3	243	11.1	7	5	5	6	9
Big Rapids	9,000	371	41.2	206	22.9	93	113	2	206	1	6	16			4	100	10.0	71	7.9	5	3	4	4	6
Balance of County	12,800	88	6.9	277	21.6	152	125	1	276	1	8	16			4	135	10.3	172	13.4	2	2	2	2	3
MENOMINEE	24,300	596	24.5	667	19.2	228	239	11	466	1	8	35			6	318	13.1	306	12.6	1	1	5	6	6
Nemadji	11,200	596	53.2	237	21.2	110	127	6	236	1	5	19			2	226	20.2	173	15.6	2	1	4	4	4
Balance of County	13,100	0	0	230	17.6	118	112	11	230	1	3	16			4	92	7.0	133	10.2	1	1	1	2	2
MIDLAND	52,500	1,288	24.7	1,270	24.2	671	599	1	790	5	25	64			20	268	5.1	325	6.2	1	1	5	12	13
Midland	28,600	1,294	45.2	724	25.3	396	328	1	724	5	15	33			11	203	7.1	153	5.3	1	2	3	3	7
Balance of County	23,900	4	0.2	546	22.8	275	271	1	541	5	10	31			9	65	2.7	172	7.2	1	1	3	8	9
MISSAUGEE	6,400	0	0	119	18.6	65	54	2	119	2	2	8			4	22	3.4	99	15.5	1	1	2	3	4
MONROE	104,200	1,362	13.1	2,427	23.3	1,257	1,170	40	2,413	14	53	166			33	591	5.7	899	8.6	22	34	45	48	66
Milan Pt.	800	1,351	58.0	612	26.5	330	289	1	616	3	25	40			1	226	11.5	277	11.9	14	9	12	12	18
Balance of County	23,300	11	0.1	1,786	21.3	914	872	16	1,775	11	27	125			20	320	4.0	610	7.6	8	25	33	36	48
MONTCALM	37,200	1,468	39.5	795	21.4	615	380	1	790	1	4	65			10	395	10.6	391	10.5	2	1	3	8	12
Greenville	7,700	565	73.4	159	20.5	82	37	2	631	1	10	15			1	114	14.8	84	10.9	2	1	2	4	6
Balance of County	29,500	903	30.6	636	21.6	333	303	1	61	4	18	50			9	281	9.5	307	10.4	2	1	2	6	8
MONTMORENCY	4,200	12	2.9	72	17.1	37	35	2	59	10	3	3			1	18	4.3	63	15.0	1	1	1	1	2
MUSKOGON	152,700	3,513	23.0	3,697	24.2	1,879	1,818	85	3,684	11	235	258			68	1,191	7.8	1,268	8.3	106	46	75	82	100
Muskogon	46,900	3,507	74.8	1,148	24.5	557	591	26	1,163	5	124	82			25	879	18.7	516	11.0	40	13	23	26	32
North Muskogon	20,100	2	0.1	543	27.0	294	249	2	541	2	66	57			10	38	1.9	162	8.1	54	7	12	13	14
Balance of County	3,000	0	0	68	17.4	36	32	1	68	1	2	4			4	16	4.1	31	7.9	1	1	2	2	3
ROOSEVELT PARK	2,600	0	0	44	16.9	21	23	1	44	1	2	4			4	24	9.2	18	6.9	1	1	1	1	1
Whitehall	2,700	0	0	61	22.6	33	28	1	61	1	1	1			1	12	4.4	31	11.5	1	1	1	1	1
Balance of County	76,500	4	0.1	1,833	24.0	938	895	42	1,827	4	43	114			32	222	2.9	510	6.7	11	24	36	39	49
NEPAWGO	24,700	568	23.0	510	20.6	261	249	5	508	2	14	17			6	301	12.2	296	12.0	12	5	6	6	9
Fronton	3,500	402	114.9	66	18.9	37	29	2	66	1	3	3			2	117	33.7	26	10.3	1	1	2	2	2
Balance of County	21,200	166	7.8	444	20.9	224	220	9	442	2	11	15			6	184	8.7	280	12.3	12	4	4	4	7
OKLAHOMA	724,900	10,304	14.2	15,796	21.8	8,113	7,683	348	15,742	48	586	1,191			182	3,936	5.4	4,706	6.5	173	141	202	227	298
Berkley Hills	23,700	0	0	464	19.6	229	235	13	464	6	12	38			6	21	0.9	148	6.2	1	1	1	1	1
Birmingham	9,000	0	0	15	1.7	7	8	15	15	2	13	59			4	8	0.9	31	3.4	1	4	7	7	8
Lawson	26,500	1	0.0	819	30.9	439	380	1	819	3	8	23			4	36	1.4	253	9.5	1	10	15	15	12
Prichard	13,400	1	0.1	364	23.6	188	176	2	364	2	8	23			4	15	1.0	82	5.3	1	4	5	5	12
Balance of County	8,700	0	0	68	17.4	36	32	1	68	1	2	4			4	12	1.4	88	10.1	1	7	9	11	16
FARMINGTON	31,900	420	13.2	723	22.7	373	350	1	720	3	15	46			7	141	4.4	285	8.9	18	3	4	4	6
Hazel Park	2,500	0	0	598	22.7	316	282	2	597	1	20	65			7	50	1.9	159	6.0	1	3	3	3	4
Holly	3,500	2	0.6	123	35.7	75	50	6	123	1	5	11			2	5	1.4	35	10.0	1	7	13	13	14
Huntington Woods	8,800	0	0	90	10.2	45	45	1	90	1	3	13			2	13	1.5	44	5.0	1	3	3	3	4
Keego Harbor	2,800	0	0	15	5.4	3	3	1	15	1	1	1			1	6	2.1	24	8.6	1	3	3	3	4
Lake Orion	2,800	0	0	13	4.7	3	3	1	13	1	1	1			1	7	2.5	31	11.1	1	3	3	3	4
Lathrup Village	3,700	0	0	36	9.7	17	13	4	36	1	10	13			1	5	1.4	29	7.8	1	14	19	22	29
Madison Heights	35,300	1	0.0	1,105	31.3	567	563	1	1,104	2	12	95			12	16	0.5	161	4.6	1	1	3	3	4
Milford	4,600	0	0	47	30.0	22	25	3	47	1	6	6			1	45	6.8	32	4.8	1	5	6	7	8
Northville Pt.	1,100	0	0	66	16.0	34	32	1	66	1	1	1			1	8	0.9	41	8.9	1	1	1	1	1
Novi	6,600	0	0	612	16.3	328	284	1	611	1	9	42			6	8	2.1	36	9.5	1	24	36	40	55
Oak Park	37,500	1	0.0	2,305	27.2	1,171	1,134	464	2,305	5	210	203			31	1,755	20.7	779	9.2	128	24	36	40	55
Pleasant Ridge	3,800	0	0	269																				



TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	POPULATION ESTIMATES		LIVE BIRTHS										FETAL DEATHS							DEATHS																							
	Jul. 1, 1963	1963	Number	Rate	Sex		Number	Rate	Male	Female	Residence			Nonwhite	Negro	Other	Twins	Triplets	Place of Delivery	Hospital	Non-Hospital	Physician	Other	Illegitimate	Immature Births*	Residence		Number	Occurrence														
					Nonwhite	Negro					Other	Physician	Non-Hospital													Other	Immature Births*		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Nonwhite	Negro	Other	Infant Under 1 Day	Infant Under 28 Days	Under 1 Year	Maternal
OCEANA	16,600	481	29.0	385	23.2	186	189	2	10	-	-	-	382	2	1	15	21	191	11.5	218	13.1	2	1	1	3	4	5	-															
OGEMAW	9,200	362	39.3	202	22.0	105	97	-	6	-	-	-	202	-	-	8	18	160	17.4	126	13.7	-	-	3	3	3	7	-															
ONTONAGON	11,100	139	12.5	225	20.3	118	107	-	10	-	-	-	225	-	-	5	13	103	9.3	144	13.0	1	-	1	1	1	2	-															
OSCEOLA	13,500	258	19.1	298	22.1	145	153	-	4	-	-	-	293	5	-	11	15	177	13.1	176	13.0	-	1	2	5	6	7	-															
OSCODA	3,500	26	7.4	77	22.0	33	44	-	-	-	-	-	55	22	-	1	7	31	8.9	45	12.9	-	-	-	-	-	-	-															
OTSEGO	8,400	187	22.3	183	21.8	92	91	-	4	-	-	-	180	3	-	8	9	89	10.6	82	9.8	1	-	3	4	4	5	-															
Gaylord	2,800	185	66.1	57	20.4	32	25	-	4	-	-	-	57	-	-	2	3	65	23.2	34	12.1	-	-	1	1	1	1	-															
Balance of County	5,600	2	0.4	126	22.5	60	66	-	4	-	-	-	123	3	-	6	6	24	4.3	48	8.6	1	-	2	3	3	4	-															
OTTAWA	103,600	2,193	21.2	2,501	24.1	1,319	1,182	7	1	43	-	-	2,487	11	3	45	105	733	7.1	802	7.7	1	-	19	30	35	47	2															
Grand Haven	11,400	363	31.9	224	20.2	119	105	-	1	1	-	-	228	1	2	7	9	166	14.6	125	11.0	-	-	3	4	4	4	-															
Holland Pt.	22,800	967	42.4	424	20.2	221	223	-	1	8	-	-	464	4	-	13	30	263	11.5	202	8.9	1	-	5	6	7	9	-															
Hudsonville	2,800	97	34.6	66	23.6	33	33	-	1	2	-	-	65	1	-	2	3	4	1.4	4	5.0	-	-	4	4	5	0	-															
Zeeland	1,200	65	54.2	91	21.7	55	36	-	1	1	-	-	91	1	-	3	2	101	24.0	56	13.3	-	-	2	2	4	5	-															
Balance of County	62,400	5	0.1	1,649	26.4	862	787	5	-	32	-	-	1,639	9	1	20	61	199	3.2	405	6.5	-	-	11	18	20	29	2															
FRESNO ISLE	13,000	302	23.2	290	22.3	144	146	-	6	-	-	-	290	-	-	9	23	113	8.7	122	9.4	-	-	8	9	9	11	-															
Rogers City	4,700	242	51.5	102	21.7	50	52	-	1	1	-	-	102	-	-	5	5	61	13.0	38	8.1	-	-	4	4	4	5	-															
Balance of County	8,300	60	7.2	188	22.7	94	94	-	6	-	-	-	188	-	-	4	18	52	6.3	84	10.1	-	-	4	5	5	6	-															
ROSCONN	7,300	2	0.3	127	17.4	64	63	-	2	6	-	-	125	2	-	6	8	54	7.4	102	14.0	-	-	1	2	2	2	-															
SAGINAW	196,500	4,978	25.3	4,854	24.7	2,511	2,343	3	84	-	-	-	4,843	11	-	270	352	1,926	9.8	1,749	8.9	138	4	50	79	90	123	2															
Chessaning	2,900	0	0	77	26.6	39	38	-	2	-	-	-	76	1	-	1	2	15	5.2	29	10.0	-	-	1	1	1	1	-															
Saginaw	100,600	4,972	49.4	2,374	23.6	1,231	1,143	2	48	-	-	-	2,369	5	-	215	207	1,406	14.0	1,039	10.3	115	4	29	43	46	66	2															
Balance of County	93,000	6	0.1	2,403	25.8	1,241	1,162	82	1	34	-	-	2,398	5	-	50	143	505	5.4	681	7.3	23	-	20	35	41	54	-															
ST. CLAIR	106,600	2,356	22.1	2,470	23.2	1,284	1,186	66	7	38	-	-	2,459	11	-	94	171	1,079	10.1	1,165	10.9	27	-	29	46	48	61	2															
Algonac	3,300	1	0.3	107	32.4	47	60	-	1	1	-	-	105	2	-	3	3	27	8.0	36	10.3	-	-	1	2	2	2	-															
Marine City	4,500	-	0.2	143	31.8	67	76	-	1	1	-	-	142	1	-	2	11	42	9.2	23	5.1	-	-	1	2	2	2	-															
Marysville	4,100	-	0	105	25.6	56	49	-	6	-	-	-	105	1	-	1	8	1	10.0	5	6.2	-	-	1	1	3	1	-															
New Baltimore Pt.	800	-	0	14	17.5	7	7	-	1	-	-	-	14	-	-	1	1	4	3.6	4	5.0	-	-	1	1	1	1	-															
Port Huron	36,100	1,679	46.5	982	27.2	503	479	49	3	13	-	-	978	4	-	52	75	716	19.8	426	11.8	18	-	15	19	20	25	-															
St. Clair	4,700	404	86.0	188	40.0	108	80	-	1	1	-	-	188	1	-	3	5	30	6.4	66	14.0	-	-	2	3	3	4	1															
Balance of County	53,100	271	5.1	931	17.5	496	435	17	3	10	-	-	927	4	-	31	67	296	5.6	531	10.0	9	-	9	17	18	25	1															
ST. JOSEPH	42,300	954	22.6	893	21.1	485	408	12	2	19	-	-	885	7	-	36	51	461	10.4	459	10.9	10	-	4	9	11	16	-															
Scargis	8,900	496	55.7	197	22.1	94	103	-	6	-	-	-	197	2	-	12	13	156	17.5	111	12.5	-	-	1	3	3	3	-															
Three Rivers	7,100	452	63.7	149	21.0	91	58	-	1	-	-	-	149	-	-	11	12	143	20.1	70	9.9	2	-	1	2	2	3	-															
Balance of County	26,300	6	0.2	547	20.8	300	247	6	1	13	-	-	541	5	-	13	26	142	5.4	278	10.6	7	-	2	4	6	10	-															
SANILAC	32,900	605	18.4	718	21.8	373	345	2	-	17	-	-	702	16	-	19	48	317	9.6	417	12.7	-	-	9	16	17	21	1															
SCHOOLCRAFT	8,400	246	29.3	175	20.8	95	80	-	2	-	-	-	175	-	-	4	9	108	12.9	107	12.7	-	-	1	2	2	3	-															
Hanistique	4,800	246	51.5	120	26.1	63	57	-	2	-	-	-	120	-	-	2	9	87	18.9	67	14.6	-	-	1	2	2	3	-															
Balance of County	3,600	-	0	55	14.5	32	23	-	-	-	-	-	55	-	-	2	2	21	5.5	40	10.5	-	-	-	-	-	-	-															
SILVANASSEE	55,000	1,364	24.8	1,284	23.3	652	632	1	5	27	-	-	1,282	2	-	45	83	452	8.2	520	9.5	-	-	9	16	16	24	-															
Corunna	2,900	0	0	87	30.0	46	41	-	4	-	-	-	87	-	-	4	6	69	23.8	25	8.6	-	-	1	1	1	1	-															
DeLand	3,400	228	67.1	97	28.5	51	46	-	4	-	-	-	97	-	-	4	7	47	13.8	30	8.8	-	-	1	1	1	1	-															
Pontiac	17,700	1,135	64.1	495	28.0	249	246	-	2	15	-	-	494	1	-	24	30	258	14.6	186	11.1	-	-	3	6	6	9	-															
Balance of County	31,000	1	0.0	605	19.5	306	299	1	3	8	-	-	604	1	-	13	40	78	2.5	269	8.7	-	-	5	9	9	11	-															
TUSCOLA	43,800	587	13.4	986	22.5	514	472	5	-	30	-	-	982	4	-	22	73	426	9.7	477	10.9	1	-	10	13	17	23	-															
Caro	3,500	92	26.3	85	24.3	37	48	-	2	-	-	-	85	-	-	4	9	48	13.7	63	18.0	-	-	2	3	3	3	-															
Vassar	2,800	0	0	55	19.6	28	27	4	-	-	-	-	55	-	-	3	3	19	6.8	35	12.5	1	-	1	1	1	1	-															
Balance of County	37,500	495	13.2	846	22.6	449	397	1	-	28	-	-	842	4	-	17	61	359	9.6	379	10.1	-	-	8	10	14	18	-															
VAN BUREN	50,700	841	16.6	1,045	20.6	556	489	77	7	30	-	-	1,035	7	-	38	75	467	9.2	617	12.2	49	-	10	14	14	29	-															
Paw Paw	3,100	378	121.9	62	20.0	31	31	-	1	-	-	-	62	-	-	3	5	98	31.6	37	11.9	-	-	2																			

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

Table with multiple columns: AREA, POPULATION ESTIMATES (Jul. 1, 1963), LIVE BIRTHS (Occurrence, Number, Rate, Sex, etc.), PLACE OF DELIVERY, FETAL DEATHS (Residence, Number), and DEATHS (Occurrence, Number, Rate, etc.). Rows include areas like MAYNE, Allen Park, Dearborn, Detroit, etc.

\* Defined by the World Health Organization for statistical purposes as all infants weighing 5 lb. 8 oz. (2,500 grams) or less.

Source of Population Estimates: State and County - University of Michigan Population Studies Center; City - Michigan Department of Health

TABLE 13 - MARRIAGES BY ORDER OF MARRIAGE AND AGE OF BRIDE AND GROOM  
MICHIGAN, 1963

AGE (YEARS)	B R I D E						G R O O M					
	Total	Order of Marriage					Total	Order of Marriage				
		First	Second	Third	Fourth or More	Not Stated		First	Second	Third	Fourth or More	Not Stated
ALL AGES	68,160	52,339	12,320	2,871	571	59	68,160	52,537	12,508	2,597	474	44
Under 15	45	42	1	-	-	2	-	-	-	-	-	-
15 - 19	25,177	24,800	337	8	-	32	9,914	9,860	34	-	-	20
20 - 24	25,128	22,708	2,270	132	4	14	31,795	30,461	1,288	31	2	13
25 - 29	5,330	2,790	2,188	324	25	3	9,945	7,631	2,132	167	10	5
30 - 34	2,972	857	1,698	353	63	1	4,523	2,267	1,936	287	33	-
35 - 39	2,533	467	1,499	463	104	-	3,153	1,029	1,688	375	61	-
40 - 44	2,065	268	1,248	442	105	2	2,317	540	1,323	378	74	2
45 - 49	1,626	166	1,012	360	85	3	1,798	279	1,100	355	62	2
50 - 54	1,179	107	737	263	71	1	1,347	187	823	279	58	-
55 - 59	858	57	545	199	56	1	1,105	105	692	231	76	1
60 - 64	553	43	343	148	19	-	853	89	544	179	40	1
65 - 69	405	21	260	102	22	-	736	63	497	155	21	-
70 & over	276	8	174	77	17	-	663	23	443	160	37	-
Not stated	13	5	8	-	-	-	11	3	8	-	-	-

TABLE 14 - MARRIAGES BY RESIDENCE STATUS OF BRIDE AND GROOM  
MICHIGAN, 1963

RESIDENCE STATUS	NUMBER	PERCENT
TOTAL	68,160	100
Both bride and groom resident of State	60,993	89.5
Bride resident, groom nonresident of State	2,772	4.1
Groom resident, bride nonresident of State	727	1.0
Both bride and groom nonresident of State	3,668	5.4
Residence status of either or both not stated	-	0

TABLE 15 - MARRIAGES BY AGE OF BRIDE AND GROOM  
MICHIGAN, 1963

AGE OF GROOM	TOTAL	AGE OF BRIDE																		70 & Over	Not Stated
		Under 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69			
TOTAL	68,160	45	413	2,648	3,818	9,083	9,215	25,177	25,128	5,330	2,972	2,533	2,065	1,626	1,179	858	553	405	276	13	
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	10	-	2	5	1	-	1	9	1	-	-	-	-	-	-	-	-	-	-	-	
16	108	2	22	43	28	11	1	105	1	-	-	-	-	-	-	-	-	-	-	-	
17	601	8	78	185	201	88	32	584	9	-	-	-	-	-	-	-	-	-	-	-	
18	3,444	16	104	647	717	1,170	530	3,168	251	7	1	1	-	-	-	-	-	-	-	-	
19	5,751	6	81	620	831	1,838	1,393	4,763	948	27	5	1	1	-	-	-	-	-	-	-	
15 - 19	9,914	32	287	1,500	1,778	3,107	1,957	8,629	1,210	34	6	2	1	-	-	-	-	-	-	-	
20 - 24	31,795	13	114	1,067	1,861	5,349	6,286	14,677	16,172	786	114	20	10	-	1	-	-	-	-	2	
25 - 29	9,945	-	11	71	138	506	764	1,490	5,649	2,115	478	166	33	12	2	-	-	-	-	-	
30 - 34	4,523	-	1	7	22	75	150	255	1,429	1,348	887	407	147	39	5	3	2	-	1	-	
35 - 39	3,153	-	-	-	13	31	39	83	461	636	776	704	354	110	27	2	-	-	-	-	
40 - 44	2,317	-	-	2	5	10	13	30	120	267	419	607	543	247	63	15	4	2	-	-	
45 - 49	1,798	-	-	-	-	5	4	9	62	92	178	364	447	425	177	41	3	-	-	-	
50 - 54	1,347	-	-	1	-	-	2	3	15	31	70	156	293	360	284	101	26	6	2	-	
55 - 59	1,105	-	-	-	1	-	-	1	4	13	26	67	151	247	290	223	60	13	10	-	
60 - 64	853	-	-	-	-	-	-	-	3	8	12	32	53	102	205	230	138	56	14	-	
65 - 69	736	-	-	-	-	-	-	-	1	-	5	6	20	69	80	156	202	146	51	-	
70 & over	663	-	-	-	-	-	-	-	2	-	1	2	13	15	45	87	118	182	198	-	
Not stated	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	

TABLE 16 - MARRIAGES BY RACE OF BRIDE AND GROOM  
MICHIGAN, 1963

RACE OF GROOM	RACE OF BRIDE						
	Total	White	Negro	American Indian	Chinese	Japanese	Other
TOTAL	68,160	62,125	5,939	46	18	9	23
White	62,027	61,940	46	21	4	5	11
Negro	6,033	141	5,888	2	-	1	1
American Indian	45	20	2	23	-	-	-
Chinese	22	6	1	-	14	-	1
Japanese	6	3	-	-	-	3	-
Other	27	15	2	-	-	-	10

TABLE 17 - DIVORCES AND ANNULMENTS BY LEGAL GROUNDS FOR DECREE  
MICHIGAN, 1963

LEGAL GROUNDS FOR DECREE	NUMBER	PERCENT
TOTAL	17,479	100
Cruelty	16,268	93.1
Desertion	668	3.8
Nonsupport	212	1.2
Fraud	141	0.8
Drunkenness	27	0.2
Bigamy	21	0.1
Adultery	17	0.1
Conviction of crime	9	0.1
Other	24	0.1
Not stated	92	0.5

TABLE 18 - DIVORCES AND ANNULMENTS BY DURATION OF MARRIAGE  
MICHIGAN, 1963

DURATION (YEARS)	NUMBER	PERCENT
TOTAL	17,479	100
Under 1 year	217	1.2
1 - 4	4,997	28.6
5 - 9	4,508	25.8
10 - 14	2,968	17.0
15 - 19	2,203	12.6
20 - 24	1,343	7.7
25 - 29	684	3.9
30 - 34	257	1.5
35 - 39	155	0.9
40 - 44	65	0.4
45 - 49	21	0.1
50 & over	15	0.1
Not stated	46	0.2

TABLE 19 - DIVORCES BY CASES CONTESTED, LIBELLANT, NUMBER OF CHILDREN: ANNULMENTS: BY COUNTY OF DECREE MICHIGAN, 1963

AREA	Divorces & Annulments	Annulments	D I V O R C E S												
			Total	Cases Contested	Granted to -		Children							5 or More	Not Stated
					Husband	Wife	0	1	2	3	4				
STATE	17,479	206	17,273	2,596	4,322	12,847	7,126	3,650	3,129	1,795	888	627	58		
Alcona	9	-	9	1	2	7	3	2	-	2	1	1	-		
Alger	-	-	-	-	-	-	-	-	-	-	-	-	-		
Allegan	100	1	99	37	31	67	38	21	17	9	3	10	1		
Alpena	33	-	33	6	3	30	12	7	5	6	-	3	-		
Antrim	15	-	15	1	5	8	6	2	2	1	2	1	1		
Arenac	7	-	7	-	2	5	3	2	2	-	-	-	-		
Baraga	12	-	12	-	1	11	5	1	2	4	-	-	-		
Barry	76	1	75	10	18	35	34	13	13	11	3	1	-		
Bay	172	3	169	20	37	132	65	33	31	14	16	10	-		
Benzie	10	-	10	1	3	7	4	2	3	1	-	-	-		
Berrien	374	3	371	27	122	249	142	91	66	42	19	11	-		
Branch	52	2	50	19	9	41	14	11	14	5	2	4	-		
Calhoun	427	4	423	85	99	324	184	77	76	39	30	17	-		
Cass	89	1	88	14	22	66	42	13	13	13	1	6	-		
Charlevoix	25	-	25	11	12	13	11	4	4	1	5	-	-		
Cheboygan	29	2	27	6	4	22	8	3	7	2	-	5	2		
Chippewa	65	-	65	3	24	41	22	12	13	7	7	4	-		
Clare	25	-	25	6	10	15	10	4	9	-	-	2	-		
Clinton	51	2	49	18	12	36	20	9	6	9	2	3	-		
Crawford	15	-	15	1	7	8	6	3	2	2	1	1	-		
Delta	46	2	44	-	12	32	11	13	7	5	2	-	6		
Dickinson	44	2	42	1	10	30	19	8	9	2	2	2	-		
Eaton	115	-	115	22	32	83	43	29	18	14	5	6	-		
Emmet	27	-	27	-	6	21	10	5	5	6	-	1	-		
Genesee	1,149	7	1,142	325	317	825	433	225	216	148	62	58	-		
Gladwin	16	-	16	1	6	9	10	1	2	1	1	1	-		
Gogebic	22	-	22	8	5	17	7	4	4	4	-	3	-		
Grand Traverse	85	2	83	9	9	74	32	14	16	14	3	4	-		
Griatiot	60	-	60	-	18	41	19	20	13	2	1	4	1		
Hillsdale	77	1	76	8	16	60	31	14	15	5	9	2	-		
Houghton	48	4	44	10	10	34	14	9	9	4	4	4	-		
Huron	35	-	35	9	6	29	13	13	4	3	1	1	-		
Ingham	680	11	669	95	142	526	246	142	137	75	48	20	1		
Ionia	70	2	68	6	23	45	27	10	13	11	4	3	-		
Iosco	41	-	41	6	17	23	13	15	6	3	3	1	-		
Iron	10	-	10	4	1	9	4	3	2	1	-	-	-		
Isabella	51	-	51	-	10	40	14	13	8	8	3	5	-		
Jackson	419	2	417	7	95	321	168	84	73	47	26	19	-		
Kalamazoo	477	2	475	17	100	373	208	98	72	53	27	16	1		
Kalkaska	10	-	10	-	5	5	6	1	1	1	-	1	-		
Kent	825	19	806	178	174	630	319	186	145	94	39	23	-		
Keweenaw	2	-	2	-	-	1	-	-	1	1	-	-	-		
Lake	8	-	8	1	6	2	3	1	1	2	-	1	-		
Lapeer	86	1	85	28	21	64	28	22	12	11	6	6	-		
Leelanau	15	-	15	2	4	11	7	1	1	4	-	1	1		
Lenawee	165	-	165	36	44	121	63	26	36	15	10	15	-		
Livingston	110	-	110	3	40	70	36	33	22	12	2	5	-		
Luce	7	-	7	-	1	6	1	2	3	-	-	1	-		
Mackinac	19	-	19	4	6	13	8	5	3	-	-	3	-		
Macomb	786	13	773	36	179	594	266	181	171	83	37	35	-		
Manistee	33	-	33	-	10	23	10	9	5	6	-	3	-		
Marquette	74	2	72	-	19	51	18	16	19	9	5	5	-		
Mason	38	1	37	2	11	26	15	6	8	5	2	1	-		
Mecosta	31	-	31	-	9	22	13	6	5	6	1	-	-		
Menominee	23	-	23	14	2	21	4	5	4	5	3	2	-		
Midland	85	-	85	4	29	56	16	29	21	14	1	4	-		
Missaukee	6	-	6	-	1	5	2	1	3	-	-	-	-		
Monroe	158	2	156	16	46	90	44	36	24	22	23	7	-		
Montcalm	71	1	70	13	10	60	21	16	9	12	7	5	-		
Montmorency	5	-	5	-	2	3	2	-	1	1	-	1	-		
Muskegon	351	1	350	9	89	260	134	70	52	52	22	20	-		
Newaygo	52	-	52	-	14	37	19	9	11	6	2	5	-		
Oakland	1,752	20	1,732	244	343	1,388	641	397	349	187	99	59	-		
Oceana	29	-	29	1	5	21	11	6	6	5	-	1	-		
Ogemaw	19	-	19	1	3	16	9	2	5	2	1	-	-		
Ontonagon	18	1	17	2	4	13	6	4	2	-	4	1	-		
Osceola	-	-	-	-	-	-	-	-	-	-	-	-	-		
Oscoda	6	-	6	1	1	5	1	2	2	-	-	1	-		
Otsego	3	-	3	-	1	2	2	-	-	1	-	-	-		
Ottawa	117	-	117	17	30	87	50	19	19	18	5	6	-		
Presque Isle	10	-	10	1	2	8	2	3	3	1	1	-	-		
Roscommon	13	-	13	1	6	6	5	3	2	2	1	-	-		
Saginaw	394	6	388	41	103	285	143	69	73	55	25	23	-		
St. Clair	245	2	243	29	57	183	75	51	50	28	17	10	12		
St. Joseph	87	-	87	33	23	64	33	19	16	11	3	3	2		
Sanilac	48	1	47	6	8	36	23	7	8	6	2	1	-		
Schoolcraft	7	-	7	-	5	2	-	1	1	2	1	-	2		
Shiawassee	109	-	109	41	23	86	40	18	29	10	5	6	1		
Tuscola	62	-	62	6	20	42	26	9	10	9	2	4	2		
Van Buren	128	-	128	5	27	101	46	23	33	10	12	3	1		
Washtenaw	466	1	465	46	83	379	193	103	94	43	20	12	-		
Wayne	5,909	81	5,828	980	1,587	4,241	2,822	1,209	948	467	235	123	24		
Wexford	39	-	39	1	10	29	12	14	7	3	2	1	-		

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